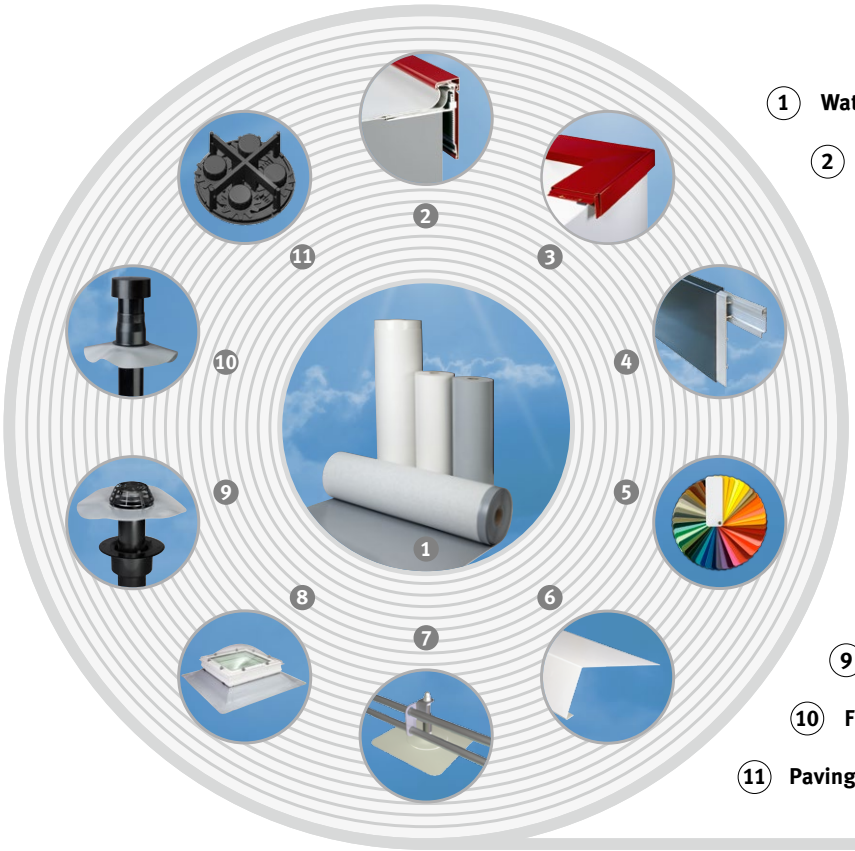
alwitra

DIE DACHMARKE

Price List 2016

alwitra waterproofing system

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



1. Waterproofing membranes
2. Roof edge trim profiles incl. colour coating
3. Wall capping profiles incl. colour coating
4. Wall flashing profiles incl. colour coating
5. Colour coating
6. Coated metal sheets
7. Snow guard profiles
8. Daylight systems
9. Rainwater outlets
10. Flat roof vents
11. 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 systems 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 of alwitra GmbH & Co. Klaus Göbel (as per page 67) apply as agreed.

Effective: July 2016, all previous price lists are void.

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1

2

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2 Hotel Alpinresort & Spa Muttler, Samnaun

3 Airport, Bordeaux

3

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1

2

1 Grand Opera House, Belfast

2 Dimeco, Pirey

3 Marina Bay, Singapore

4 Esplanade Theatres on the Bay, Singapore

3

4

Development, Production and Certification

The products of alwitra flat roofing systems are liable to high loads in practice. The long durability and functionality are typical for our products and are the result of intensive research and development, use of premium-quality raw material and best possible production on modern plants.

To guarantee the proven alwitra performance standard, development, production and sales of flat roof waterproofing systems (synthetic waterproofing membranes, aluminium profiles, colour coating, daylight systems, vents, rainwater outlets) are subject to strict internal and external quality controls and environment controls. The integrated manufacturer's management system is certified by TÜV according to DIN EN ISO 9001 - quality management systems, ISO 14001 environment management systems - and ISO 50001 - energy management systems.

EVALON® EVA waterproofing membranes, Certificate no. 1343 – CPR – K1562/03.14				
EVALON® V homogeneous sealing layer, with polyester fleece backing dimensions (m) length [1] x width	**EVALON® VG** homogeneous sealing layer, with glass fleece / polyester fleece backing dimensions (m) length [1] x width	**EVALON® VG** homogeneous sealing layer, with glass fleece / polyester fleece backing dimensions (m) length [1] x width	**EVALON® VSK** homogeneous sealing layer, with polyester fleece backing and self-adhesive coating dimensions (m) length [1] x width	**EVALON® VGSK** homogeneous sealing layer, with glass fleece / polyester fleece backing and self-adhesive coating dimensions (m) length [1] x width
25 x 1.05 (1.09) [2] 25 x 1.55 (1.59) [2] 25 x 2.05 [4]	25 x 1.05 (1.09) [2] 25 x 1.55 (1.59) [2]	25 x 1.05	25 [3] x 1.05	25 [3] x 1.05
white / light grey / slate grey	white / light grey / slate grey	green / brick red	white / light grey / slate grey	white / light grey / slate grey
€/m² 1.2 mm / **1.5 mm** 17.80 / **21.00**	**€/m²** 1.2 mm / **1.5 mm** 18.25 / **21.45**	**€/m²** **1.5 mm** **23.25**	**€/m²** 1.2 mm / **1.5 mm** 20.70 / **23.90**	**€/m²** 1.2 mm / **1.5 mm** 21.55 / **24.75**

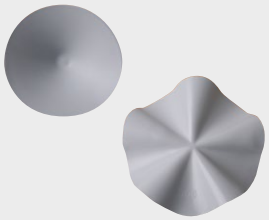
EVALON® tapes standard length 25 m						
Tape width	**EVALON®** homogeneous white / light grey / slate grey **€/m** **1.5 mm**	**EVALON®** homogeneous white / light grey / slate grey **€/m²** 1.2 mm / **1.5 mm**	**EVALON® V** homogeneous sealing layer, with polyester fleece backing white / light grey / slate grey **€/m** 1.2mm / **1.5 mm**	**EVALON® VG** homogeneous sealing layer, with polyester fleece / glass fleece backing white / light grey / slate grey **€/m** 1.2 mm / **1.5 mm**	**surcharge** **for tapes** **green / brick red** **€/m / €/m² 1.5 mm**	**EVALON® VSKA** homogeneous sealing layer, with polyester fleece backing and self-adhesive coating white / light grey / slate grey **€/m** **1.5 mm**
16 cm	**3.35**	-	-	-	**0.30**	-
20 cm	**4.10**	-	-	-	**0.35**	-
25 cm	**5.05**	-	-	-	**0.45**	-
33 cm	**6.55**	-	-	-	**0.60**	**8.45**
43 cm	-	-	-	-	-	**10.85**
50 cm	**9.75**	-	-	-	**0.90**	-
54 cm	-	-	9.95 / **11.65**	10.15 / **11.85**	-	-
63 cm	-	-	-	-	-	**15.60**
66 cm	**12.75**	-	-	-	**1.20**	**15.80** [2]
75 cm	**14.45**	-	-	-	**1.35**	-
79 cm	-	-	14.40 / **16.90**	14.70 / **17.20**	-	-
86 cm	-	-	-	-	-	**20.55** [2]
105 cm	-	15.65 / **18.85**	-	-	**1.80**	-
155 cm	-	15.65 / **18.85**	-	-	-	-
126 cm	-	-	-	-	-	**30.15** [2]
200 cm	-	15.65 / **18.85** [4]	-	-	-	-

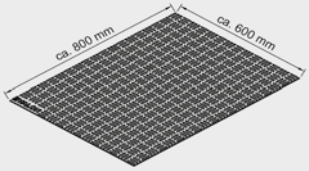
Adhesives / cleaner / primer				
Product	**Quantity**	**Packing unit / pallet**	**€/packing unit**	**€/tin**
alwitra adhesive L 40	25 kg 9.5 kg	**12 containers** **30 containers**	**12.40 €/kg** **13.24 €/kg**	**310.00** **125.75**
alwitra adhesive PUR D	5 x 2 kg 1 x 5.5 kg	**30 pieces** **84 pieces**	**17.55 €/kg** **17.15 €/kg**	**175.50** **94.30**
alwitra membrane cleaner	2 kg		**12.65 €/kg**	**25.30**
alwitra cleaner L 40 (tool cleaner)	10 L		**9.90 €/L**	**99.00**
alwitra primer SK-L for EVALON® VSK and EVALON® VSKA	25 L 10 L	**12 pieces** **42 pieces**	**12.50 €/L** **13.00 €/L**	**312.50** **130.00**
alwitra primer SK [5] for EVALON® VSK and EVALON® VSKA	25 L 10 L	**12 pieces** **44 pieces**	**11.65 €/L** **12.45 €/L**	**291.25** **124.50**

[1] Surcharge for special lengths (at least 15 m) on request.
[2] with double selvedge.
[3] up to 5% short length quota.
[4] membrane width 2.00 m and 2.05 m: slate grey only available in 1.2 mm.
[5] solvent free.

For further information and additional delivery conditions see page 66

Solvent welding agent / liquid EVALON®				
Product	**Quantity**	**Packing unit / carton**	**€/L**	**€/container**
alwitra solvent welding agent for seam welding of EVALON® membranes	0.5 L 3.0 L	**24 pieces** **12 pieces**	**23.90** **16.50**	**11.95** **49.50**
liquid EVALON®, white/light grey/slate grey	2.5 L	**4 pieces**	**20.92**	**52.30**

EVALON® prefabricated parts, colour white/light grey/slate grey, other colours on request			
Internal / external corner for parapets white/light grey/slate grey **€/piece**	**Internal / external corner** for roof edge trim profiles white/light grey/slate grey **€/piece**	**Sleeve** incl. heat shrink tube Ø internal in mm white/light grey/slate grey **€/piece**	**Flash protection and cable penetration** incl. heat shrink tube Ø internal in mm white/light grey/slate grey **€/piece**
			
4.95	**6.95**	Ø 50 mm: **33.50** Ø 80 mm: **38.15** Ø 110 mm: **42.40**	Ø 18 mm: **20.20** Ø 26 mm: **22.00**

EVALON® maintenance walkway tile * packing unit: pallet at 100 plates or bundle at 5 tiles (minimum quantity: 1 bundle, complete units only)		
Form/dimensions	**Product data**	**€/tile**
	Length x width: approx. 800 x 600 mm Area: 0.48 m² Surface: structured bar height approx. 4 mm Total thickness: ≥ 8.5 mm Colour: dark grey slight colour differences are possible	**19.80**

* Laying on EVALON® membranes only by gluing with EVATACK

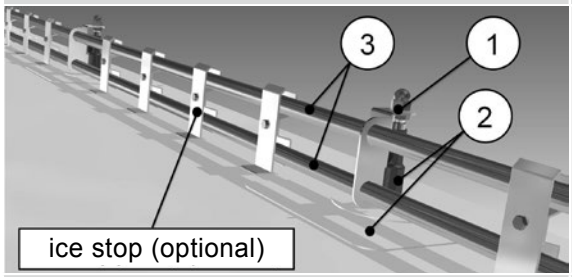
EVATACK glue and sealant cartridge, one component		
	Consumption approx. 90-100 ml/maintenance walkway tile	**15.50 €**/cartouche (290 ml)

EVALON® - Strukturprofil *		
Standing seam effect profile	**Product data**	**€/m**
	Length: 2.0 m Colour: light grey/slate grey green other colours on request	 **5.05** **5.30**

alwitra solvent welding machine	
mobile Price on request	

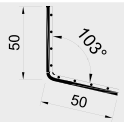
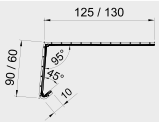
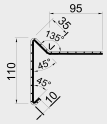
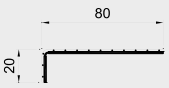
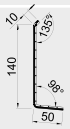
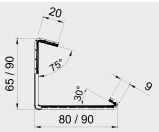
* Joint connections included

For further information and additional delivery conditions see page 66

Snow guard profile		
Shape / dimensions	**Scope of delivery**	**Price**
	**1 stainless steel pillar with retaining clip** [1] with fasteners **2 EVALON® prefabricated part** with self-adhesive shrunken tube **3 stainless steel catching pipes,** 26.9 x 2 mm, 6.00 m (5.94 m) with plug-in system	**on request**
	[1] Pillar distance: calculation according to snow load area and roof geometry.	

EVALON® - coated metal sheets [2]			
only complete full pallet units per type and colour colours: white/light grey/slate grey			**Coils** (complete coils only) **Pallet** (4 coils / pallet) dimension: 1.00 m x 30.00 m colours: white/light grey/slate grey
pallet at 10 sheets (20 m²) dimension /sheet: 1.00 m x 2.00 m	**598.00 €/pallet**	29.90 €/m²	**27.88 €/m²**
pallet at 30 sheets (60 m²) dimension /sheet: 1.00 m x 2.00 m	**1,672.80 €/pallet**	27.88 €/m²	
pallet at 100 sheets (200 m²) dimension /sheet: 1.00 m x 2.00 m	**5,190.00 €/pallet**	25.95 €/m²	
pallet at 70 sheets (210 m²) dimension /sheet: 1.00 m x 3.00 m	**5,449.50 €/pallet**	25.95 €/m²	

[2] EVALON® - coated stainless steel metal sheets V4A 1.4404-2B on request.

EVALON® coated metal sheet profiles (complete bundles only)					
Shape/dimension	**Type**	**Length**	**Colour**	**Bars/bundle**	**€/m**
	**Perimeter fastening**	3 m	white/ light grey/ slate grey	10	**3.85**
	**Eaves flashing 90** **Eaves flashing 60**	3 m	white/ light grey/ slate grey	10	**8.15** **7.30**
	**Edge trim profile**	3 m	white/ light grey/ slate grey	8	**9.60**
	**Edge trim angle**	3 m	white/ light grey/ slate grey	10	**3.85**
	**Wall flashing**	3 m	white/ light grey/ slate grey	10	**7.30**
	**Gravel stop 65** (coated aluminium-metall sheet) **Gravel stop 90**	2 m	white/ light grey/ slate grey	5	**17.35** **18.35**

For further information and additional delivery conditions see page 66

EVALASTIC® EPDM waterproofing membranes, CE-certificate no. 1343 – CPR – K1562/03.14	
EVALASTIC® V homogeneous sealing layer, with polyester fleece backing dimension (m) length [1] x width	**EVALASTIC® VGSK** homogeneous sealing layer, with glass fleece / polyester fleece backing and self-adhesive coating dimension (m) length [1] x width
25 x 1.05 (1.09) [3] 25 x 1.55 (1.59) [3]	25 x 1.05
light grey [2]	light grey
€/m² 1.2 mm / **1.5 mm** 18.25 / **21.45**	**€/m²** **1.5 mm** **26.80**

EVALASTIC® tapes standard length 25 m

Tape width	**EVALASTIC®** homogeneous light grey [2] **1.5 mm** **€/m**	**EVALASTIC® R** **for repairs** homogeneous light grey [2] **1.5 mm** **€/m**	**EVALASTIC®** homogeneous light grey [2] 1.2 mm / **1.5 mm** **€/m²**	**EVALASTIC® V** homogeneous sealing layer with polyester fleece backing light grey [2] 1.2 mm / **1.5 mm** **€/m**	**EVALASTIC® VSKA** homogeneous sealing layer with polyester fleece backing and self-adhesive coating light grey [2] **1.5 mm** **€/m**
16 cm	**3.40**	**3.40**	-	-	**-**
20 cm	**4.15**	**4.15**	-	-	**-**
25 cm	**5.10**	**5.10**	-	-	**-**
33 cm	**6.65**	**6.65**	-	-	**8.65**
43 cm	**-**	**-**	-	-	**11.15**
50 cm	**9.90**	**9.90**	-	-	**-**
54 cm	**-**	**-**	-	10.15 / **11.90**	**-**
66 cm	**13.00**	**-**	-	-	**16.15** [3]
75 cm	**14.75**	**-**	-	-	**-**
79 cm	**-**	**-**	-	14.70 / **17.25**	**-**
86 cm	**-**	**-**	-	-	**21.05** [3]
105 cm	**-**	**-**	16.10 / **19.25**	-	**-**
155 cm	**-**	**-**	16.10 / **19.25**	-	**-**

Adhesives / cleaner / primer

Product	Quantity	Packing unit / pal.	€/pu	€/tin
alwitra adhesive L 40	25 kg 9.5 kg	**12 containers** **30 containers**	**12.40 €/kg** **13.24 €/kg**	**310.00** **125.75**
alwitra adhesive PUR D	5 x 2 kg 1 x 5.5 kg	**30 pieces** **84 pieces**	**17.55 €/kg** **17.15 €/kg**	**175.50** **94.30**
alwitra membrane cleaner	2 kg		**12.65 €/kg**	**25.30**
alwitra cleaner L 40 (tool cleaner)	10 L		**9.90 €/L**	**99.00**
alwitra primer SK-L for EVALASTIC® VSKA	25 L 10 L	**12 pieces** **42 pieces**	**12.50 €/L** **13.00 €/L**	**312.50** **130.00**
alwitra primer SK [5] for EVALASTIC® VSKA	25 L 10 L	**12 pieces** **44 pieces**	**11.65 €/L** **12.45 €/L**	**291.25** **124.50**

EVALASTIC® maintenance walkway tile

packing unit: pallet at 100 tiles or bandle at 5 tiles (minimum quantity: 1 bundle, complete units only) **see EVALON® maintenance walkway tile page 10**	**21.10 €/tile**

EVALASTIC® standing seam effect profile

colour: light grey, length 2.0 m **dimensions see EVALON® standing seam effect profile page 10**	**6.20 €/m**

[1] Surcharge for fix lengths (at least 15 m) on request.
[2] Other colours, for example black on request.
[3] Surcharge for other sealing thicknesses on request
[4] Solvent free.

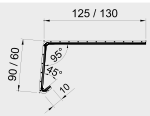
For further information and additional delivery conditions see page 66

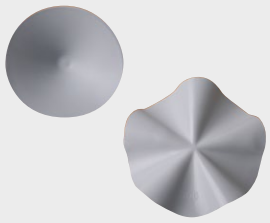
EVALASTIC® - snow guard profile	
Scope of delivery: stainless steel pillar with retaining clip, EVALASTIC® prefabricated part **product details see EVALON® - snow guard profile page 9**	**Price on request**

EVALASTIC® coated metal sheets [1] (minimum quantity 10 sheets [2] / pallets at 30 or 100 sheets)		
Dimension	**Colour**	**€/m²**
1.00 m x 2.00 m	light grey	**28.45**

[1] EVALASTIC® coated stainless steel metall sheets V4A 1.4404-2B on request.

[2] < 30 sheets: surcharge 30.00 €

EVALASTIC® coated metal sheet profiles (complete bundles only)					
Shape/dimension	**Type**	**Length**	**Colour**	**Bars/bundle**	**€/m**
	Perimeter flashing	2 m	light grey	5	**4.80**
NEW 	**Eaves flashing 90** **Eaves flashing 60**	2 m	light grey	5	**10.15** **9.10**

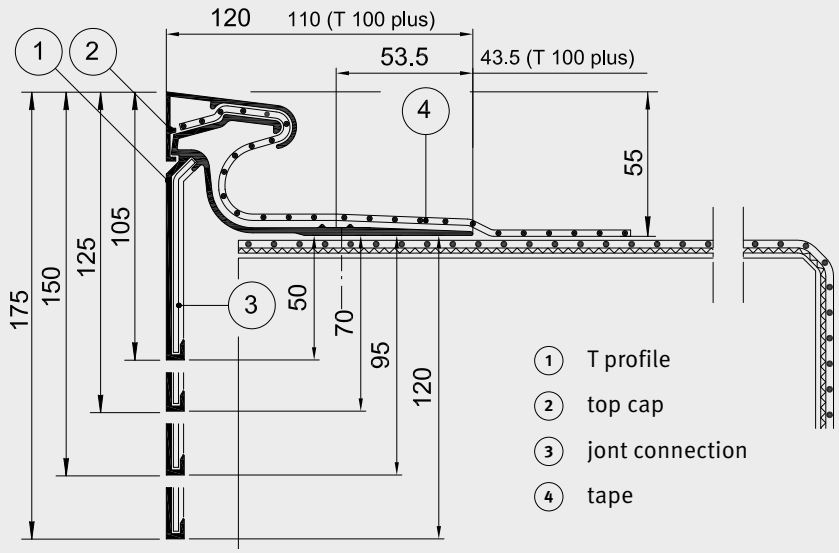
EVALASTIC® prefabricated parts, colour light grey			
Internal / external corner for parapets **€/piece**	**Internal / external corner** for edge trim profiles **€/piece**	**Sleeve** incl. heat shrink tube Ø internal in mm **€/piece**	**Flash protection and cable penetration** incl. heat shrink tube Ø internal in mm **€/piece**
			
5.05	**6.40**	Ø 50 mm: **33.50** Ø 80 mm: **38.15** Ø 110 mm: **42.40**	Ø 18 mm: **20.20** Ø 26 mm: **22.00**

alwitra installation tool set	alwitra seam checker	Hot air welding aid
Total price: 135.00 €	**6.70 €**	**Width: 15 cm: 9.20 €/m** **Roll length: 10 m, 25 m**

For further information and additional delivery conditions see page 66

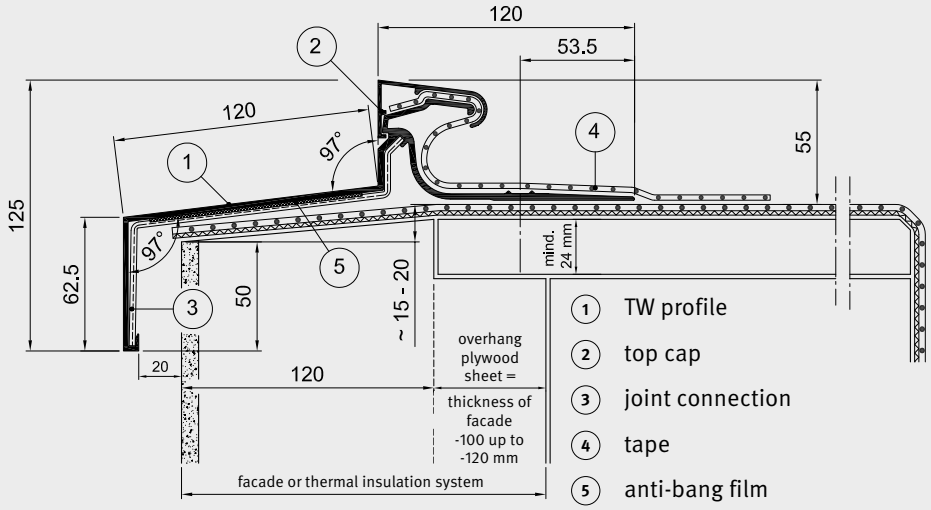
Roof edge trim profile T plus, TW 125 plus

alwitra



T plus

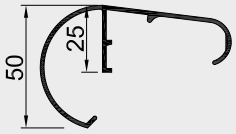
Profile nominal height 100, 125, 150, 175 mm



TW 125 plus

waterproofing membrane 1.5 mm

standard top cap

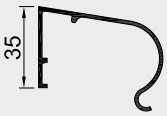


waterproofing membrane 1.5 mm

rounded top cap not for TW 125 plus

waterproofing membrane up to 2.5 mm

large top cap



polymer bitumen sheet

top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile T plus, TW 125 plus

alwitra

Roof edge trim profile T plus, 2-parts								
Profile nominal height	**Packing unit**	**Mill finish** incl. acc.	Surcharge **Colour coating** [1]	Surcharge **90° corners mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Surcharge **Rounded top cap**	Closed **Stop ends mill finish**	Surcharge **Colour coating stop ends**
mm	bar x m	€/m	€/m	€/piece	€/piece	€/m	€/piece	€/piece
100	6 x 5	**22.70**	**9.60**	**30.60**	**5.45**	**3.30**	**17.30**	**3.75**
125	4 x 5	**25.70**	**9.85**	**33.40**	**5.45**	**3.30**	**17.30**	**3.75**
150	4 x 5	**27.00**	**10.15**	**33.90**	**5.45**	**3.30**	**17.30**	**3.75**
175	4 x 5	**29.20**	**10.45**	**34.30**	**5.45**	**3.30**	**17.30**	**3.75**

[1] Including joint connections.

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 pieces joint connections	T profile corner, (20/20 cm) Top cap miter for corners at (26.5 cm/26.5 cm) [2] 2 pieces joint connections

[2] (50/50 cm) top cap for bitumen sheet.

Roof edge trim profile TW 125 plus, 2-parts							
Profile nominal height	**Packing unit**	**Mill finish** incl. acc.	Surcharge **Colour coating** [1]	Surcharge **90° corners mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Closed **Stop ends wall abutments mill finish** [3]	Surcharge **Colour coating stop ends**
mm	bar x m	€/m	€/m	€/piece	€/piece	€/piece	€/piece
125	4 x 2.5	**41.65**	**12.95**	**41.25**	**8.60**	**46.00**	**9.95**

[1] Including joint connections.
[3] Stop ends / wall abutments welded on profile bar, length: 0.32 m.
0.385 m top cap included, 0.30 m noise suppression stripe and 1 piece joint connection.

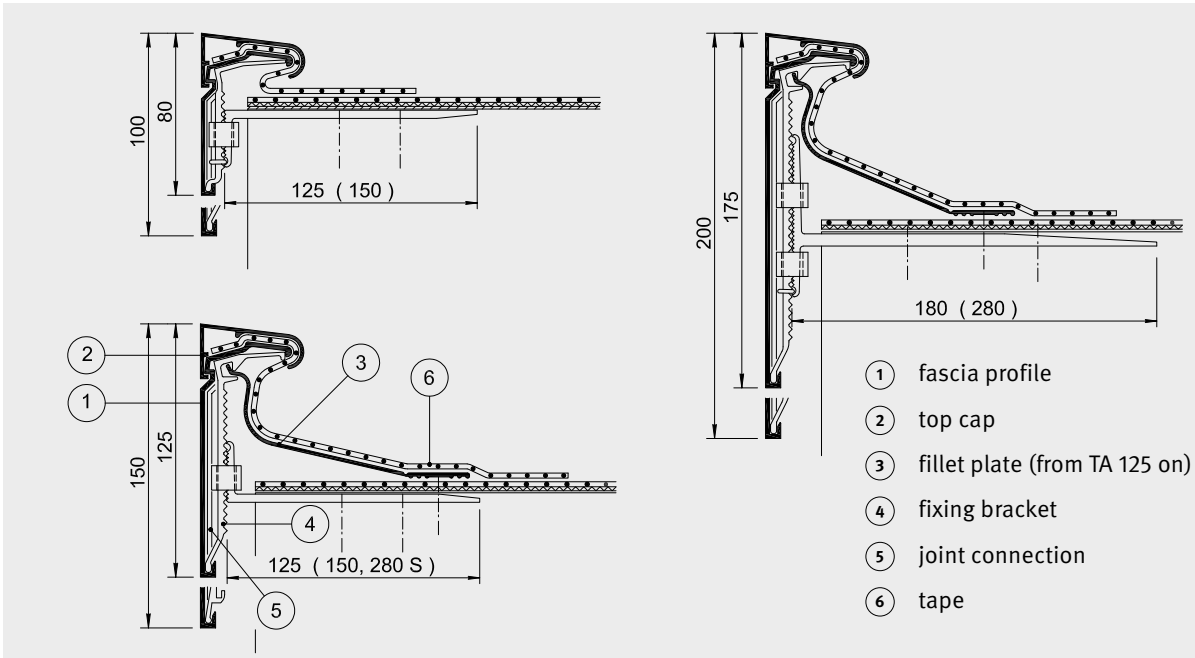
Scope of delivery	
per m profile	**per 90° corner**
0.4 bars TW 125 at 2.50 m, 6 x 8 mm slotted holes in e = 250 mm 0.4 bars top cap at 2.50 m 0.4 pieces joint connections 1.0 pieces noise suppression strip	Edge trim profile corner TW (external corner, ready for assembly, 32/32 cm; internal corner, ready for assembly, 8/8 cm) Top cap miter for corners at (26.5/26.5 cm) [2] 2 pieces joint connections

[2] (50/50 cm) top cap for bitumen sheet.

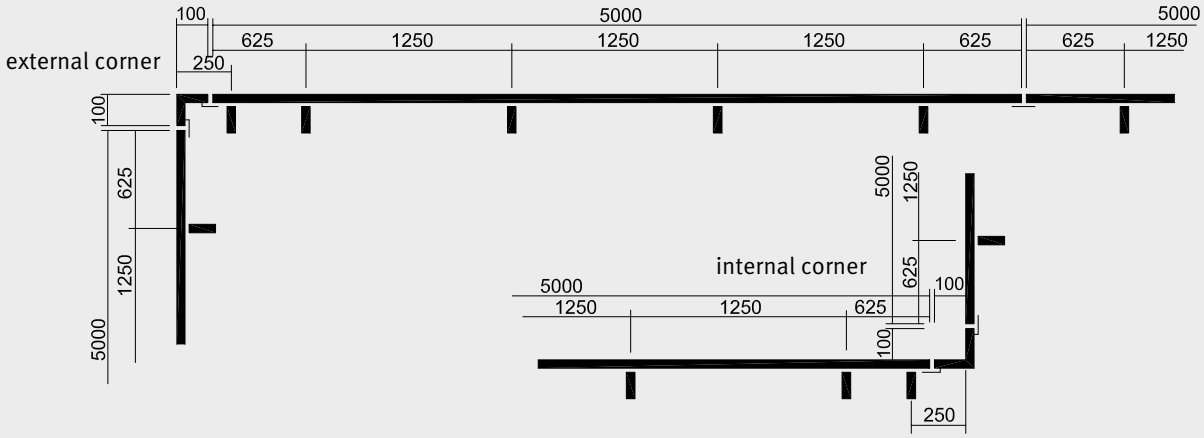
Tape	Width cm	EVALON® nominal thickness 1.5 mm €/m	EVALASTIC® nominal thickness 1.5 mm €/m
	25	**5.05**	**5.10**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**

Roof edge trim profile TA



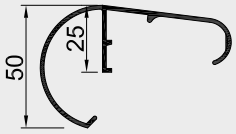
TA
Profile nominal height 80, 100, 125, 150, 175, 200 mm



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 brackets are required (according to DIN EN 1991-1-4).

waterproofing membrane 1.5 mm

standard top cap

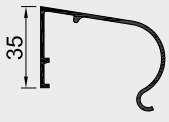


waterproofing membrane 1.5 mm

rounded top cap

waterproofing membrane up to 2.5 mm

large top cap



polymer bitumen sheet

top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile TA

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Roof edge trim profile TA, multi-part								
Profile nominal height	**Packing unit**	**Mill finish** incl. acc.	Surcharge **Colour coating** [1]	Surcharge **90° corners mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Surcharge **Rounded top cap**	Closed **Stop ends mill finish**	Surcharge **Colour coating stop ends**
mm	**bar x m**	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/m**	**€/piece**	**€/piece**
80	14 x 5	**21.90**	**8.90**	**31.95**	**5.45**	**3.30**	**17.30**	**3.75**
100	14 x 5	**24.00**	**9.60**	**33.25**	**5.45**	**3.30**	**17.30**	**3.75**
125	14 x 5	**27.00**	**9.85**	**34.90**	**5.45**	**3.30**	**17.30**	**3.75**
150	7 x 5	**28.95**	**10.15**	**36.55**	**5.45**	**3.30**	**17.30**	**3.75**
175	7 x 5	**33.15**	**10.45**	**41.35**	**5.45**	**3.30**	**17.30**	**3.75**
200	7 x 5	**37.25**	**11.30**	**45.85**	**5.45**	**3.30**	**17.30**	**3.75**

[1] Including joint connections.

Surcharge for fillet plate 150 mm: 4.00 €/m

Scope of delivery (for building height up to 20 m in non-exposed locations, wind zone WZ 1 + WZ 2, according to DIN EN 1991-1-4)	
per m profile [2]	**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) 0.2 pieces joint connections 0.8 pieces brackets	Front profile corner (10/10 cm) 2 pieces welded corner joining plate Top cap miter for corners at (26.5/26.5 cm) [3] 1 piece bracket

[2] per roof edge 1 additional piece of brackets.

[3] (50/50 cm) top cap for bitumen sheet.

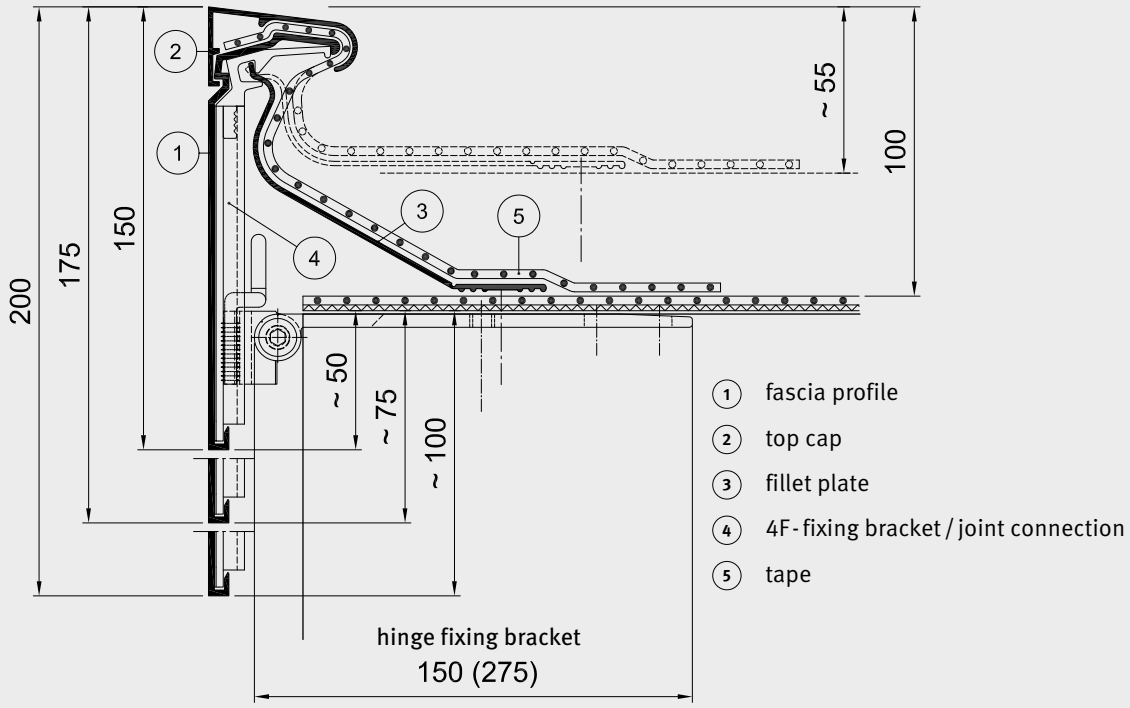
Tape	**Width cm**	**EVALON® nominal thickness 1.5 mm €/m**	**EVALASTIC® nominal thickness 1.5 mm €/m**
	16 [4]	**3.35**	**3.40**
	20 [4]	**4.10**	**4.15**
fillet plate 100	25	**5.05**	**5.10**
fillet plate 150	33	**6.55**	**6.65**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**

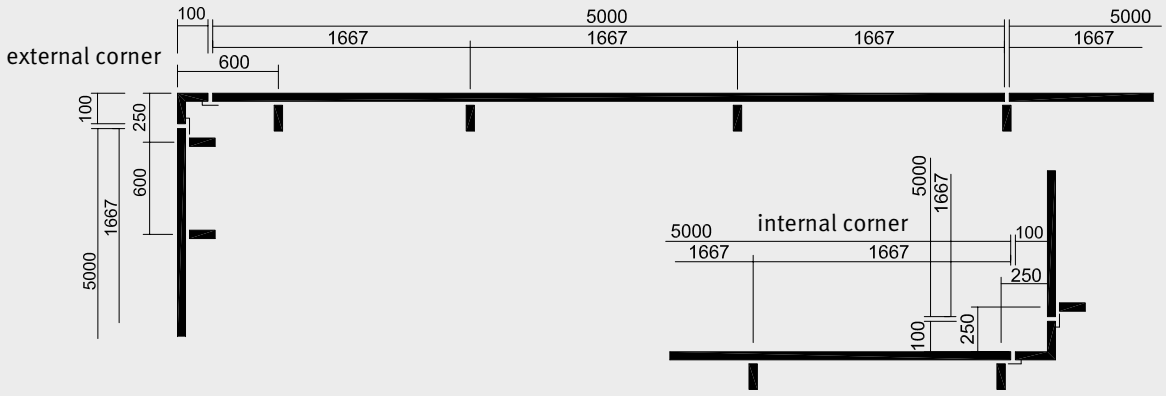
[4] without fillet plate.

For further information and additional delivery conditions see page 66

Roof edge trim profile TA-4F



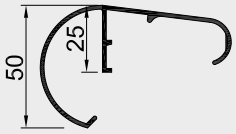
TA-4F
Profile nominal height 150, 175, 200 mm



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 brackets are required (according to DIN EN 1991-1-4).

waterproofing membrane 1.5 mm

standard top cap

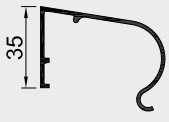


waterproofing membrane 1.5 mm

rounded top cap

waterproofing membrane up to 2.5 mm

large top cap



polymer bitumen sheet

top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile TA-4F

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Roof edge trim profile TA-4F, multi-part									
Profile nominal height	**Packing unit**	**Mill finish** incl. acc	Surcharge **Colour coating** [1]	Surcharge **90° corners Mill finish** incl. acc	Surcharge **Colour coating 90° corners**	Surcharge **Extended fixing brackets** (275 mm)		Closed **Stop ends Mill finish**	Surcharge **Colour coating Stop ends**
mm	bar x m	€/m	€/m	€/piece	€/piece	€/m	€/corner	€/piece	€/piece
150	**7 x 5**	**34.25**	**10.15**	**43.10**	**5.45**	**4.80**	**13.20**	**17.30**	**3.75**
175	**7 x 5**	**37.45**	**10.45**	**47.00**	**5.45**	**4.80**	**13.20**	**17.30**	**3.75**
200	**7 x 5**	**39.85**	**11.30**	**51.00**	**5.45**	**4.80**	**13.20**	**17.30**	**3.75**

[1] including joint connections.

Surcharge for fillet plate 150 mm:	**4.00 €/m**
Surcharge for rounded top cap:	**3.30 €/m**

Scope of delivery (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

per m profile [2]	per 90° external corner	per 90° internal 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 pieces 4F brackets/joining plates	Front profile external corner (10/10 cm) 2 pieces welded corner joining plate Top cap miter for corners (26.5/26.5 cm) [3] 2 pieces 4F brackets/joining plates	Front profile internal corner (10/10 cm) 2 pieces welded corner joining plate Top cap miter for corners (26.5/26.5 cm) [3] 1 piece 4F bracket/joining plate

[2] per roof edge 1 additional piece of brackets.

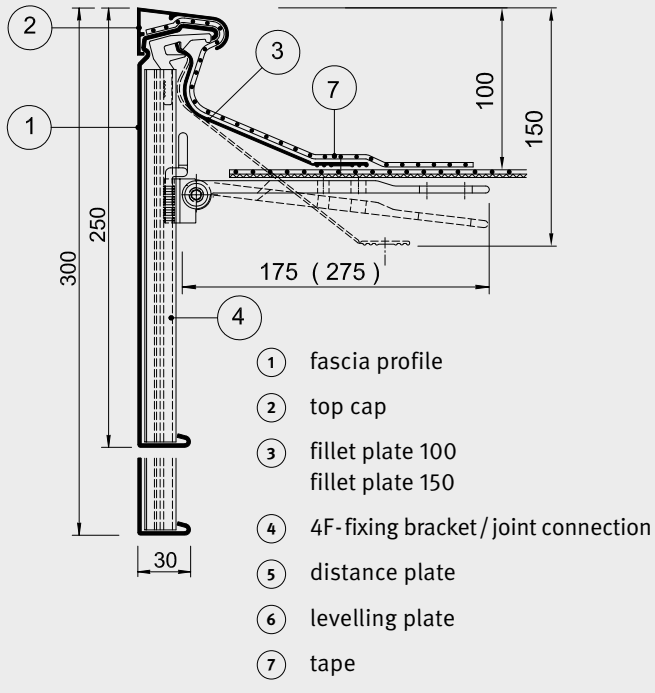
[3] (50/50 cm) top cap for bitumen sheet.

Special inbus key for fixation of 4F bracket:	**5.30 €/piece**

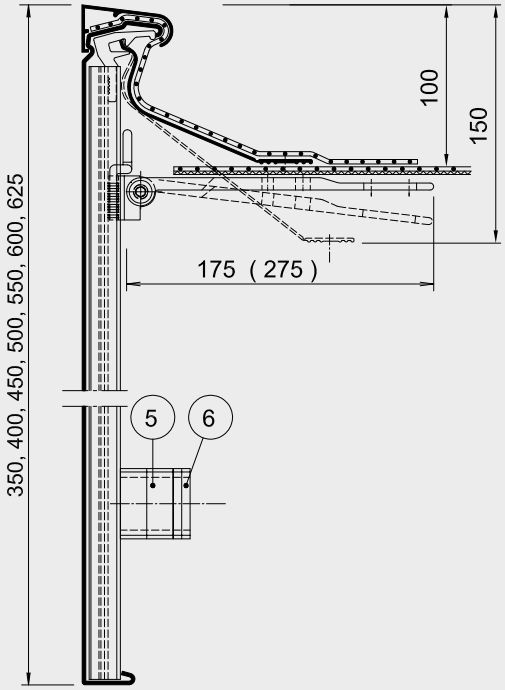
Tape	Width cm	EVALON® Nominal thickness 1.5 mm €/m	EVALASTIC® Nominal thickness 1.5 mm €/m
Fillet plate 100	25	**5.05**	**5.10**
Fillet plate 150	33	**6.55**	**6.65**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**

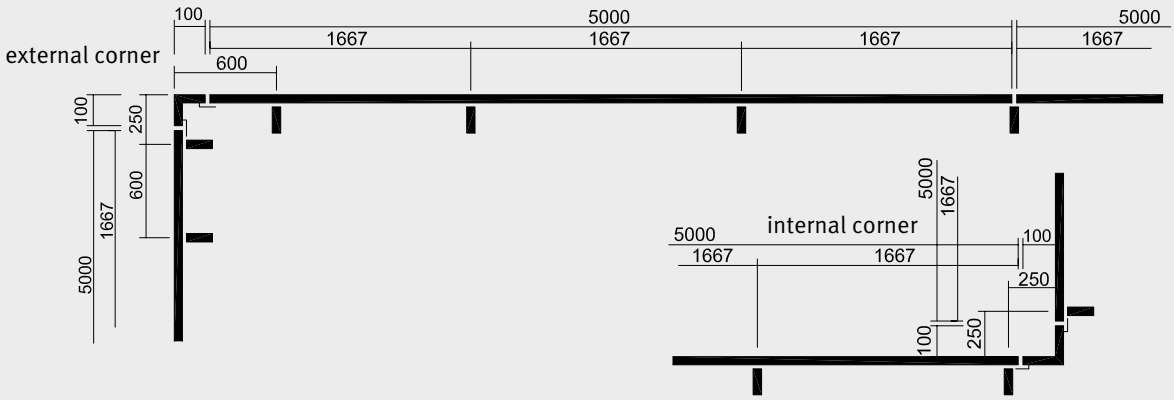
Roof edge trim profile TAG 250 - 625



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



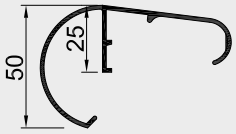
TAG
Profile nominal height 250, 300, 350, 400, 450, 500, 550, 600, 625 mm



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 brackets are required (according to DIN EN 1991-1-4).

waterproofing membrane 1.5 mm

Standard top cap

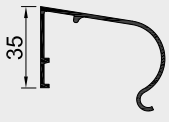


waterproofing membrane 1.5 mm

Rounded top cap

waterproofing membrane up to 2.5 mm

Large top cap



polymer bitumen sheet

Top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile TAG 250 - 625

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Roof edge trim profile TAG 250...625, multi-part								
Profile nominal height	**Mill finish 2.0 mm protection foiled** incl. acc.	Surcharge **Colour coating**[1]	Surcharge **90° corners Mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Surcharge **Extended fixing brackets** (275 mm)		closed **Stop ends Mill finish**	Surcharge **Colour coating Stop ends/ Joint connections**
mm	€/m	€/m	€/piece	€/piece	€/m	€/corner	€/piece	€/piece
250	**42.15**	**12.80**	**48.15**	**7.05**	**3.85**	**10.40**	**17.95**	**6.10**
300	**47.10**	**14.35**	**52.20**	**7.05**	**3.85**	**10.40**	**20.80**	**6.10**
350	**57.15**	**15.25**	**63.70**	**8.60**	**3.85**	**10.40**	**26.20**	**6.10**
400	**62.70**	**15.60**	**69.00**	**8.60**	**3.85**	**10.40**	**29.40**	**6.10**
450	**65.70**	**16.55**	**71.90**	**8.60**	**3.85**	**10.40**	**32.65**	**7.70**
500	**70.05**	**17.65**	**74.70**	**8.60**	**3.85**	**10.40**	**35.40**	**7.70**
550	**73.30**	**18.95**	**82.05**	**10.20**	**3.85**	**10.40**	**39.15**	**7.70**
600	**76.80**	**19.85**	**88.45**	**10.20**	**3.85**	**10.40**	**42.45**	**7.70**
625	**78.95**	**20.80**	**93.10**	**10.20**	**3.85**	**10.40**	**45.75**	**7.70**

[1] Colour coating of joint connections against surcharge only.

Surcharge for fillet plate 150 mm:	**4.00 €/m**
Surcharge for rounded top cap:	**3.30 €/m**

Scope of delivery TAG 250...625 (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

per m profile[2]	**per 90° external corner**	**per 90° internal 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 pieces 4F brackets/joining plates 1.2 pieces distance plates (for TAG 350 – 625) 1.2 piece levelling plates (for TAG 350 – 625)	Front profile external corner (10/10 cm) 2 pieces welded corner joining plate Top cap miter for corners (26.5/26.5 cm)[3] 2 pieces 4F-Brackets/joining plates 4 pieces distance plates (for TAG 350 – 625) 4 pieces levelling plates (for TAG 350 – 625)	Front profile internal corner (10/10 cm) 2 pieces welded corner joining plate Top cap miter for corners (26.5/26.5 cm)[3] 1 Ppiece 4F bracket/joining plate 2 pieces distance plates (for TAG 350 – 625) 2 pieces levelling plates (for TAG 350 – 625)

[2] per roof edge 1 additional piece of brackets.

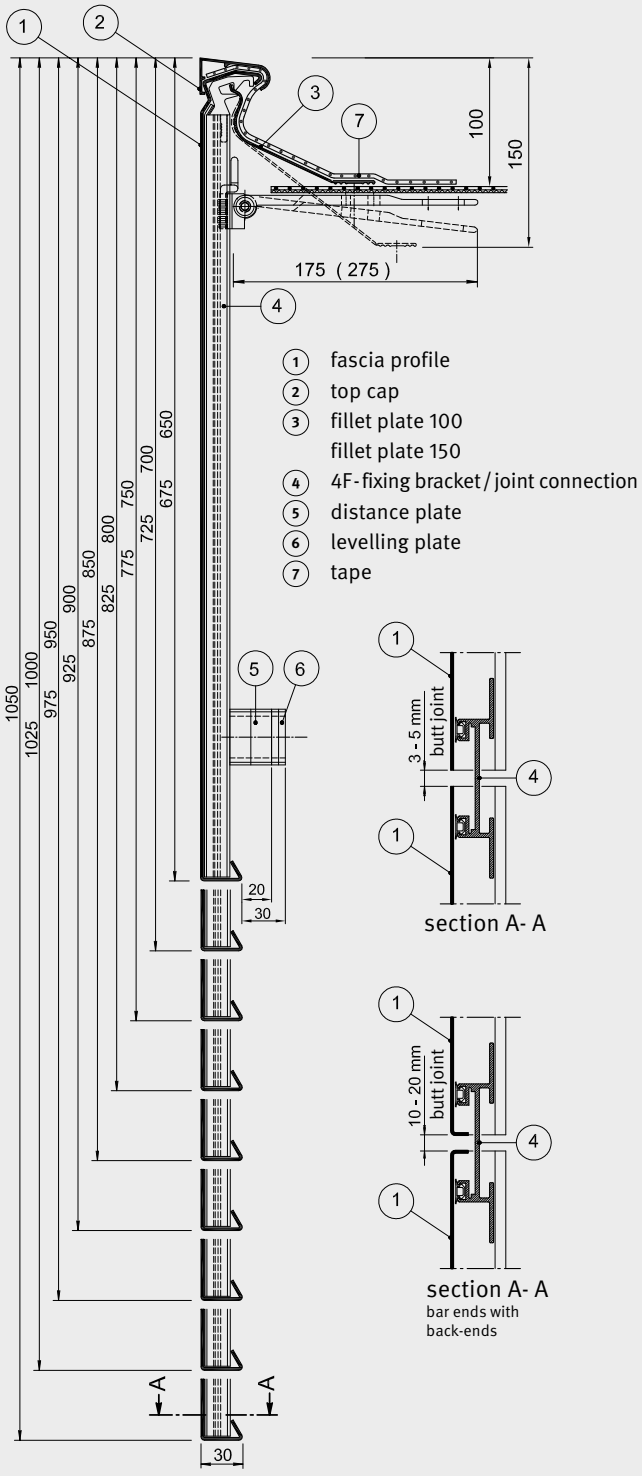
[3] (50/50 cm) top cap for bitumen sheet.

Special inbus key for fixation of 4F bracket:	**5.30 €/piece**

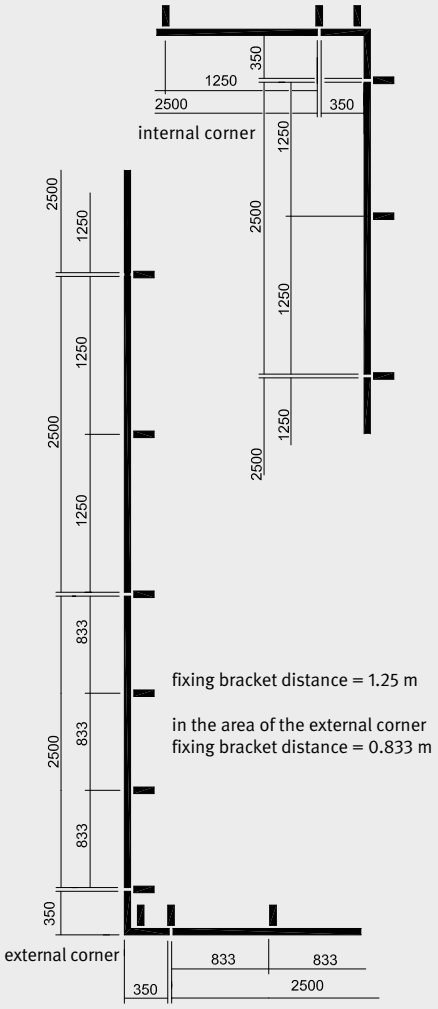
Tape	**Width cm**	**EVALON® Nominal thickness 1.5 mm €/m**	**EVALASTIC® Nominal thickness 1.5 mm €/m**
Fillet plate 100	25	**5.05**	**5.10**
Fillet plate 150	33	**6.55**	**6.65**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**

Roof edge trim profile TAG 650 - 1050



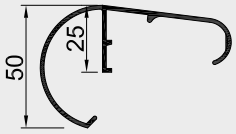
TAG
Profile nominal height 650, 675, 700, ... 1025, 1050 mm



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 brackets are required (according to DIN EN 1991-1-4).

waterproofing membrane 1.5 mm

standard top cap

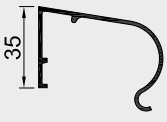


waterproofing membrane 1.5 mm

rounded top cap

waterproofing membrane up to 2.5 mm

large top cap



polymer bitumen sheet

top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile TAG 650 - 1050

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Roof edge trim profile TAG 650...1050, multi-part								
Profile nominal height	**Mill finish 2.0 mm protection foiled** incl. acc.	Surcharge **Colour coating**[1]	Surcharge **90° corners Mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Surcharge **Extended fixing brackets** (275 mm)		Closed **Stop ends Mill finish**	Surcharge **Colour coating Stop ends/ Joint connections**
mm	€/m	€/m	€/piece	€/piece	€/m	€/corner	€/piece	€/piece
650	**90.55**	**23.20**	**98.90**	**11.75**	**5.10**	**13.85**	**49.50**	**8.00**
675	**96.05**	**23.95**	**101.65**	**11.75**	**5.10**	**13.85**	**51.25**	**8.00**
700	**101.40**	**24.65**	**104.30**	**11.75**	**5.10**	**13.85**	**52.90**	**8.00**
725	**104.10**	**25.35**	**107.05**	**11.75**	**5.10**	**13.85**	**54.70**	**8.00**
750	**106.70**	**26.05**	**109.70**	**11.75**	**5.10**	**13.85**	**56.40**	**8.00**
775	**109.40**	**26.75**	**112.45**	**11.75**	**5.10**	**13.85**	**58.20**	**8.00**
800	**112.00**	**27.40**	**115.15**	**11.75**	**5.10**	**13.85**	**59.90**	**8.00**
825	**114.70**	**28.15**	**117.85**	**11.75**	**5.10**	**13.85**	**61.65**	**8.00**
850	**117.40**	**28.85**	**120.55**	**11.75**	**5.10**	**13.85**	**63.35**	**8.00**
875	**120.85**	**29.55**	**123.25**	**11.75**	**5.10**	**13.85**	**65.10**	**8.00**
900	**124.40**	**30.20**	**125.95**	**11.75**	**5.10**	**13.85**	**66.80**	**8.60**
925	**127.55**	**30.95**	**128.65**	**11.75**	**5.10**	**13.85**	**68.70**	**8.60**
950	**130.80**	**31.65**	**131.40**	**11.75**	**5.10**	**13.85**	**70.25**	**8.60**
975	**134.60**	**32.40**	**134.05**	**11.75**	**5.10**	**13.85**	**72.10**	**8.60**
1000	**138.45**	**33.10**	**136.80**	**11.75**	**5.10**	**13.85**	**73.75**	**8.60**
1025	**142.25**	**33.75**	**139.55**	**11.75**	**5.10**	**13.85**	**75.45**	**8.60**
1050	**146.05**	**34.45**	**142.25**	**11.75**	**5.10**	**13.85**	**77.15**	**8.60**

[1] Colour coating of joint connections against surcharge only.

Surcharge for fillet plate 150 mm:	**4.00 €/m**
Surcharge for rounded top cap:	**3.30 €/m**
Surcharge for back-edging at bar-ends:	**per meter profile 6.70 €/m**
	per corner 25.75 €/piece

Scope of delivery TAG 650...1050 (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

per m profile[2]	**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 0.8 pieces 4F brackets/joining plates 1.6 pieces distance plates 1.6 pieces levelling plates	Front profile external corner (35/35 cm) Top cap miter for corners (26.5/26.5 cm)[3] 3 pieces 4F brackets/joining plate 6 pieces distance plates 6 pieces levelling plates	Front profile internal corner (35/35 cm) Top cap miter for corners (26.5/26.5 cm)[3] 2 pieces 4F bracket/joining plate 4 pieces distance plates 4 pieces levelling plates

[2] per roof edge 1 additional piece of brackets.

[3] (50/50 cm) top cap for bitumen sheet.

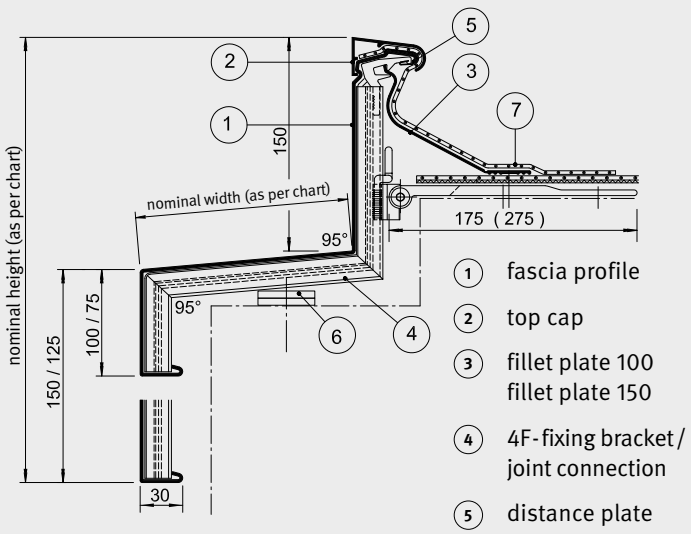
Special inbus key for fixation of 4F bracket:	**5.30 €/piece**

Tape	**Width cm**	**EVALON® Nominal thickness 1.5 mm €/m**	**EVALASTIC® Nominal thickness 1.5 mm €/m**
Fillet plate 100	25	**5.05**	**5.10**
Fillet plate 150	33	**6.55**	**6.65**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**

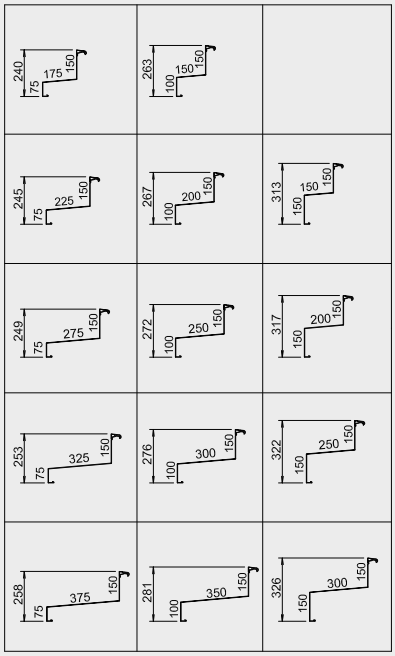
For further information and additional delivery conditions see page 66

Roof edge trim profile art-line 1

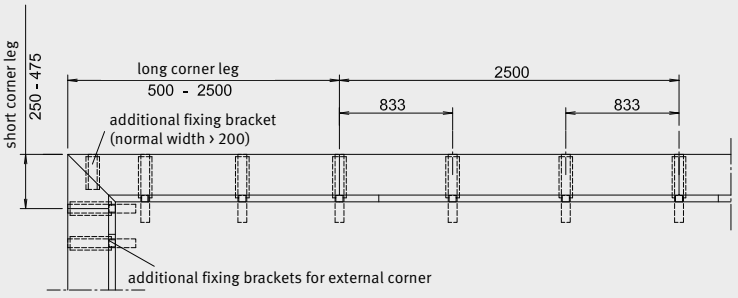


1 fascia profile
2 top cap
3 fillet plate 100
fillet plate 150
4 4F-fixing bracket / joint connection
5 distance plate
6 levelling plate
7 tape

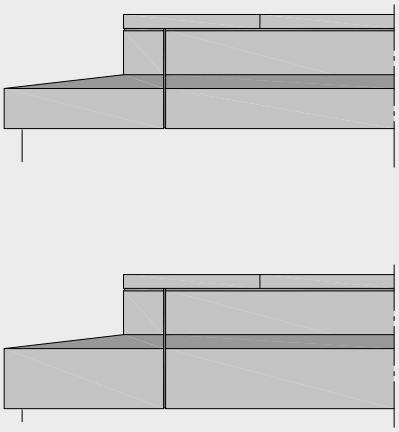
art-line 1



Profile specification:
art-line 1 (nominal height)



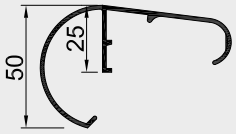
Fixing bracket position for building height up to 20 m
For buildings in wind zone WZ 3 + WZ 4, exposed location, building height over 20 m, additional brackets are required (according to DIN EN 1991-1-4).



Front face (External corner)

waterproofing membrane
1.5 mm

standard top cap

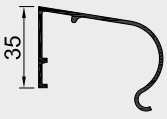


waterproofing membrane
1.5 mm

rounded top cap

waterproofing membrane
up to bis 2.5 mm

large top cap



polymer bitumen
sheet

top cap for bitumen sheet

For further information and additional delivery conditions see page 66

Roof edge trim profile art-line 1

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Roof edge trim profile art-line 1, multi-part								
Profile nominal height	**Mill finish 2.0 mm protection foiled** incl. acc.	Surcharge **Colour coating**[1]	Surcharge **90° corners Mill finish** incl. acc.	Surcharge **Colour coating 90° corners**	Surcharge **Extended fixing brackets** (275 mm)		Closed **Stop ends Wall abut-ments Mill finish**	Surcharge **Colour coating Stop ends/ Wall abutments / Joint connections**
mm	€/m	€/m	€/piece	€/piece	€/m	€/corner	€/piece	€/piece
240 263	**105.50**	**17.15**	**91.10**	**17.15**	**7.60**	**16.95**	**32.35**	**6.10**
245 267 313	**112.70**	**18.20**	**101.15**	**17.15**	**7.60**	**16.95**	**35.85**	**7.70**
249 272 317	**114.85**	**19.45**	**113.05**	**17.15**	**7.60**	**16.95**	**38.95**	**7.70**
253 276 322	**119.55**	**20.85**	**125.40**	**20.30**	**7.60**	**16.95**	**43.10**	**7.70**
258 281 326	**125.15**	**21.85**	**137.40**	**20.30**	**7.60**	**16.95**	**46.75**	**7.70**

Other dimensions on request

[1] Colour coating of joint connections against surcharge only

Surcharge for fillet plate 150 mm:	**4.00 €/m**
Surcharge for rounded top cap:	**3.30 €/m**

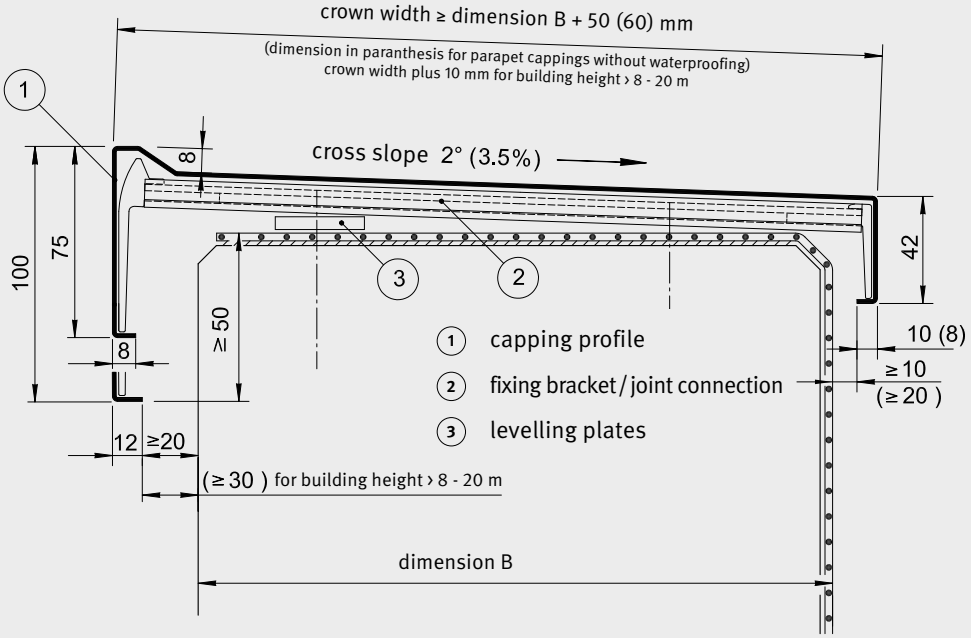
Scope of delivery art-line 1 (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)		
per m profile	**per 90° external corner**	**per 90° internal corner**
0.4 bars front profile at 2.50 m 0.4 bars top cap at 2.50 m 0.4 bars fillet plate at 2.50 m 1.2 pieces 4F brackets / joining plate with security springs 2.4 pieces distance plates	Front profile external corners Top cap miter for corners (26.5/26.5 cm)[2] 3 (4) pieces 4F brackets / joining plate with security springs 1 piece corner bracket (nominal width › 200) 6 (8) pieces distance plates	Front profile internal corner Top cap miter for corners (26.5/26.5 cm)[2] 2 (3) pieces 4F brackets / joining plate with security springs 4 (6) pieces distance plates

other shapes on demand

[3] (50/50 cm) top cap for bitumen sheet.

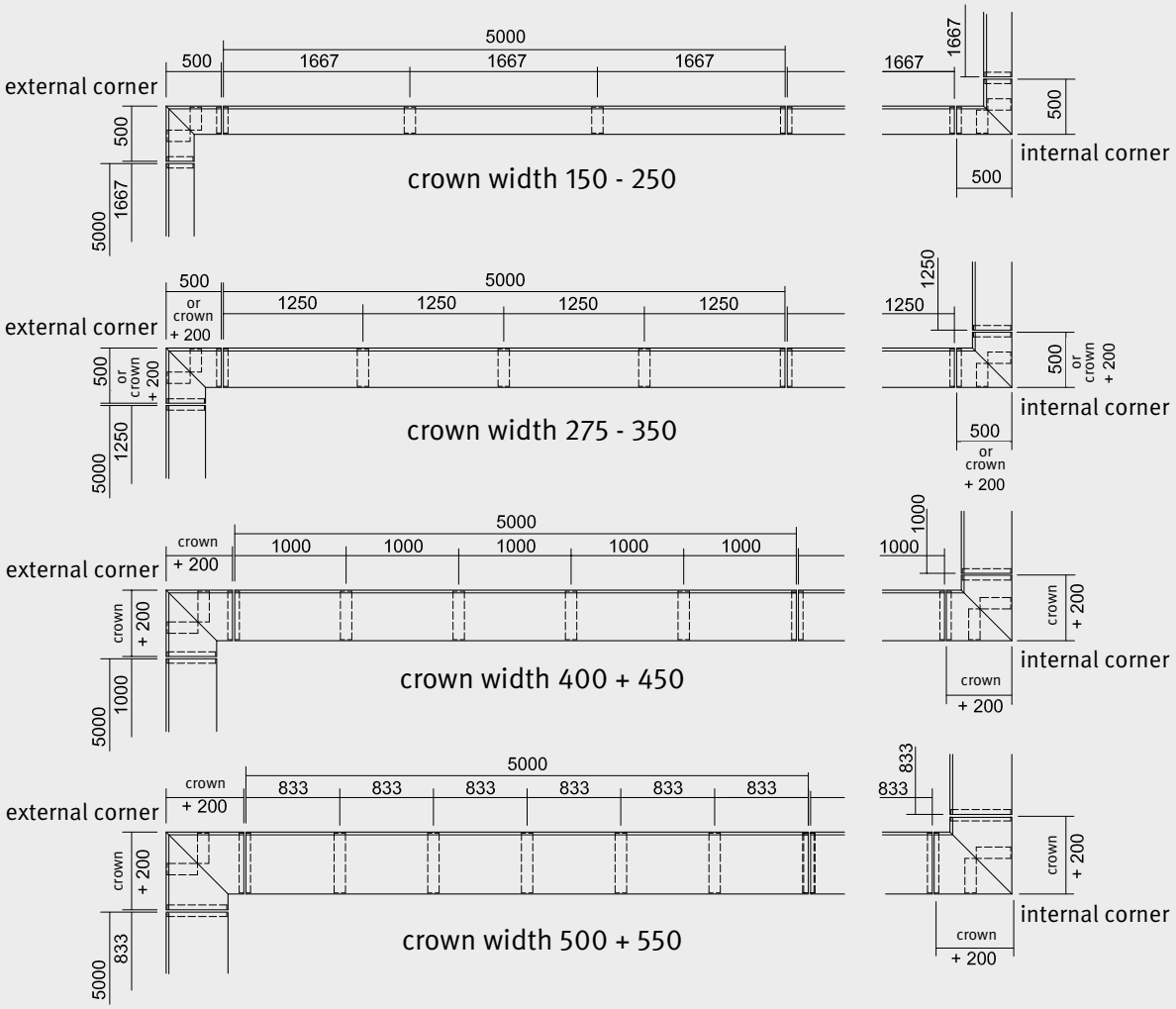
Tape	**Width cm**	**EVALON® Nominal thickness 1.5 mm €/m**	**EVALASTIC® Nominal thickness 1.5 mm €/m**
Fillet plate 100	25	**5.05**	**5.10**
Fillet plate 150	33	**6.55**	**6.65**

prefabricated pieces for connection of 90° standard external / internal corners	**6.95 €/piece**	**7.35 €/piece**



MAG

Front face height 75, 100 mm, Back face height 42 mm



Fixing bracket / joint connection 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 brackets are required (according to DIN EN 1991-1-4).

For further information and additional delivery conditions see page 66

Wall capping profile MAG

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Wall capping profile MAG 75 Front face height 75 mm							
Crown width	**Mill finish 1.5 mm protection foiled** incl. acc.	Surcharge **Colour coating**	Surcharge **90° corners Mill finish**	Surcharge **Colour coating 90° corners**	closed **Stop ends Mill finish**	**Wall abutments Mill finish**	Surcharge **Colour coating Stop ends/ Wall abutments**
mm	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
150	**17.30**	**11.35**	**47.15**	**7.05**	**21.55**	**18.95**	**4.95**
175	**18.50**	**12.20**	**48.40**	**7.05**	**23.40**	**18.95**	**4.95**
200	**19.80**	**13.00**	**49.65**	**7.05**	**25.20**	**18.95**	**4.95**
225	**21.15**	**13.85**	**51.00**	**7.05**	**27.05**	**19.30**	**4.95**
250	**22.40**	**14.65**	**52.50**	**7.05**	**28.85**	**21.05**	**4.95**
275	**24.85**	**15.50**	**53.85**	**7.05**	**30.70**	**22.85**	**8.10**
300	**26.05**	**16.35**	**54.45**	**7.05**	**31.90**	**24.30**	**8.10**
350	**28.45**	**17.65**	**55.40**	**10.60**	**33.95**	**26.60**	**8.10**
400	**34.20**	**19.75**	**54.10**	**10.60**	**37.40**	**30.10**	**8.10**
450	**37.25**	**21.00**	**56.90**	**10.60**	**40.85**	**33.50**	**8.10**
500	**42.45**	**22.80**	**62.40**	**10.60**	**44.30**	**36.90**	**10.30**
550	**46.10**	**25.40**	**64.95**	**12.90**	**47.75**	**40.40**	**10.30**

larger crown widths / thicknesses / intermediate sizes, see MAK-B 5.3.

Wall capping profile MAG 100 Front face height 100 mm							
Crown width	**Mill finish 1.5 mm protection foiled** incl. acc.	Surcharge **Colour coating**	Surcharge **90° corners Mill finish**	Surcharge **Colour coating 90° corners**	closed **Stop ends Mill finish**	**Wall abutments Mill finish**	Surcharge **Colour coating Stop ends/ Wall abutments**
mm	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
150	**18.45**	**12.20**	**54.30**	**7.05**	**25.95**	**18.95**	**4.95**
175	**19.70**	**13.00**	**55.70**	**7.05**	**27.85**	**18.95**	**4.95**
200	**21.10**	**13.85**	**57.20**	**7.05**	**29.85**	**19.60**	**4.95**
225	**22.35**	**14.65**	**58.85**	**7.05**	**31.95**	**21.60**	**4.95**
250	**23.65**	**15.50**	**60.25**	**7.05**	**34.00**	**23.65**	**8.10**
275	**26.35**	**16.35**	**61.40**	**7.05**	**36.00**	**25.65**	**8.10**
300	**27.45**	**16.95**	**63.45**	**7.05**	**36.75**	**27.75**	**8.10**
350	**30.50**	**18.25**	**63.40**	**10.60**	**41.80**	**30.30**	**8.10**
400	**35.40**	**20.45**	**63.75**	**10.60**	**45.50**	**34.20**	**8.10**
450	**37.85**	**21.70**	**66.85**	**10.60**	**49.60**	**38.05**	**10.30**
500	**43.90**	**23.45**	**72.95**	**10.60**	**53.15**	**41.90**	**10.30**
550	**47.45**	**26.10**	**76.30**	**12.90**	**57.00**	**45.80**	**10.30**

larger crown widths / thicknesses / intermediate sizes, see MAK-B 5.3.

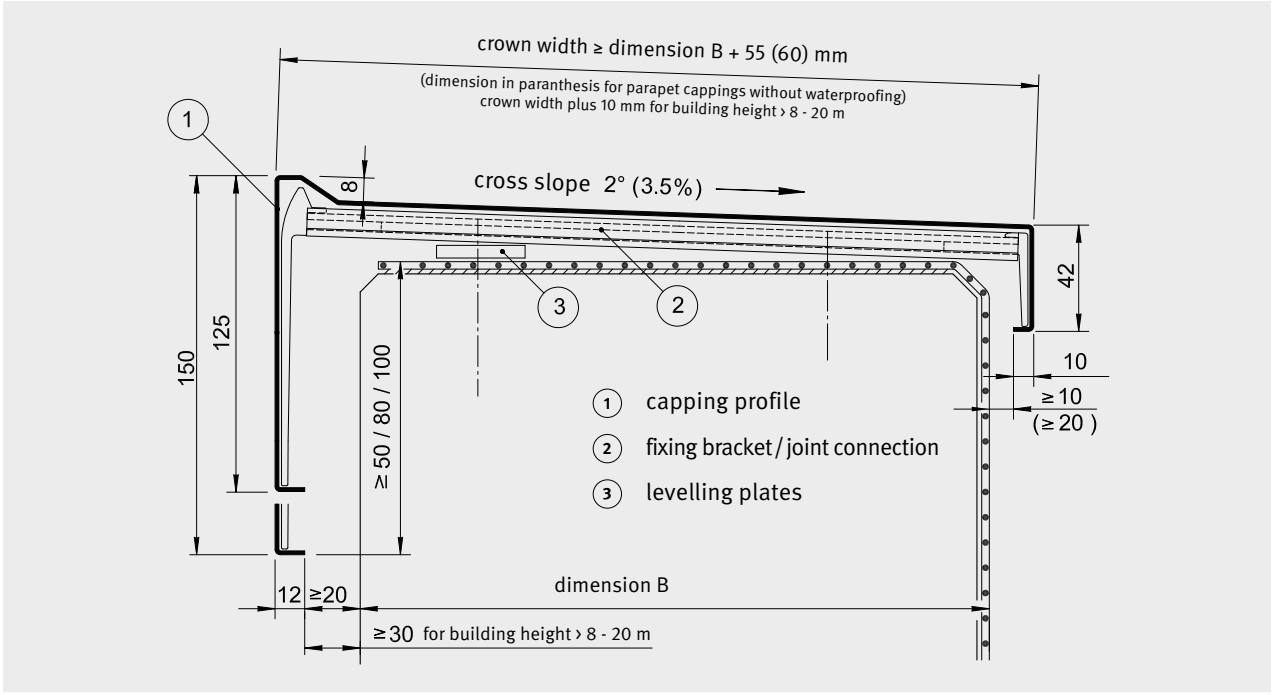
Scope of delivery MAG 75 / 100 (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

per m profile	per 90° external corner	per 90° internal corner
0.2 bars wall capping at 5.00 m 0.6 bracket / joining plate crown width 150 – 250 mm 0.8 bracket / joining plate crown width 275 – 350 mm 1.0 bracket / joining plate crown width 400 + 450 mm 1.2 bracket / joining plate crown width 500 + 550 mm Levelling plates	Capping external corner 1 bracket / Joining plate 2 corner bracket (front face) Levelling plates	Capping internal corner 1 bracket / Joining plate 2 corner bracket (back face height) Levelling plates

Order information: MAG (Crown width) / (Front face height)

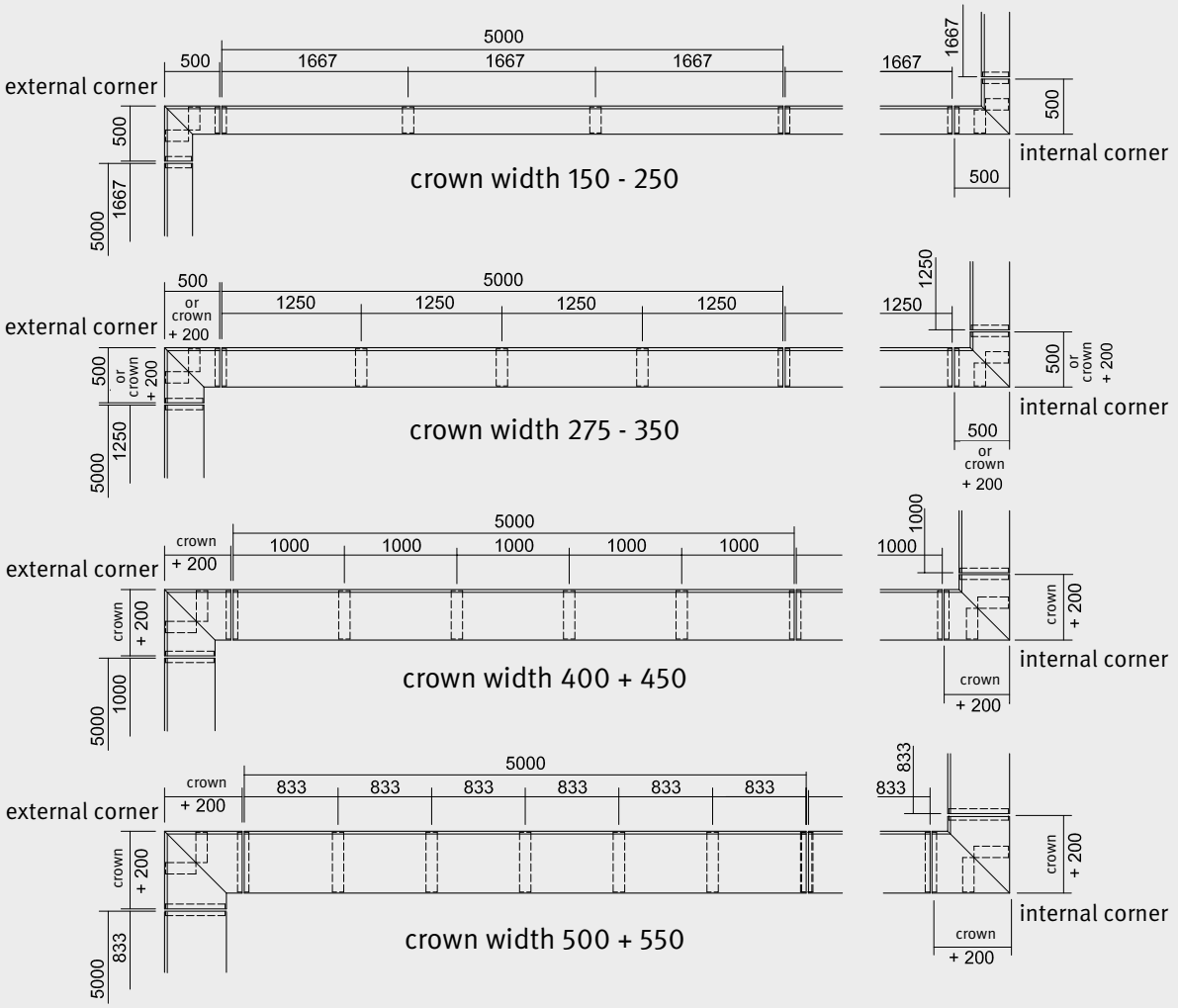
For further information and additional delivery conditions see page 66

Wall capping profile MAG



MAG

Front face height 125, 150 mm, Back face height 42 mm



Fixing bracket / joint connection 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 brackets are required (according to DIN EN 1991-1-4).

For further information and additional delivery conditions see page 66

Wall capping profile MAG

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Wall capping profile MAG 125 Front face height 125 mm							
Crown width	**Mill finish 1.5 mm protection foiled** incl. acc.	Surcharge **Colour coating**	Surcharge **90° corners Mill finish**	Surcharge **Colour coating 90° corners**	closed **Stop ends Mill finish**	**Wall abutments Mill finish**	Surcharge **Colour coating Stop ends/ Wall abutments**
mm	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
150	**19.80**	**13.00**	**55.75**	**7.05**	**27.85**	**19.30**	**4.95**
175	**21.05**	**13.85**	**57.35**	**7.05**	**29.90**	**20.30**	**4.95**
200	**22.35**	**14.70**	**58.75**	**7.05**	**31.95**	**21.65**	**8.10**
225	**23.65**	**15.50**	**60.25**	**7.05**	**34.00**	**23.65**	**8.10**
250	**24.90**	**16.30**	**61.70**	**7.05**	**35.75**	**26.00**	**8.10**
275	**27.35**	**17.00**	**63.20**	**10.60**	**37.70**	**28.05**	**8.10**
300	**28.95**	**17.65**	**64.35**	**10.60**	**39.30**	**29.00**	**8.10**
350	**32.30**	**18.90**	**64.25**	**10.60**	**43.65**	**32.25**	**8.10**
400	**37.80**	**21.05**	**65.30**	**10.60**	**47.55**	**36.15**	**10.30**
450	**40.90**	**22.60**	**68.40**	**10.60**	**51.40**	**39.95**	**10.30**
500	**45.70**	**24.80**	**74.65**	**12.90**	**55.05**	**43.85**	**10.30**
550	**49.30**	**27.40**	**78.00**	**12.90**	**58.90**	**47.75**	**12.50**

larger crown widths / thicknesses / intermediate sizes, see MAK-B 5.3.

Wall capping profile MAG 150 Front face height 150 mm							
Crown width	**Mill finish 1.5 mm protection foiled** incl. acc.	Surcharge **Colour coating**	Surcharge **90° corners Mill finish**	Surcharge **Colour coating 90° corners**	closed **Stop ends Mill finish**	**Wall abutments Mill finish**	Surcharge **Colour coating Stop ends/ Wall abutments**
mm	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
150	**21.10**	**13.85**	**57.20**	**7.05**	**29.85**	**19.60**	**4.95**
175	**22.35**	**14.65**	**58.85**	**7.05**	**31.95**	**21.60**	**4.95**
200	**23.65**	**15.50**	**60.25**	**7.05**	**34.00**	**23.65**	**8.10**
225	**24.90**	**16.35**	**61.75**	**7.05**	**36.00**	**25.65**	**8.10**
250	**26.15**	**16.95**	**63.20**	**7.05**	**37.45**	**28.30**	**8.10**
275	**28.35**	**17.65**	**64.85**	**10.60**	**39.45**	**30.35**	**8.10**
300	**30.50**	**18.25**	**65.15**	**10.60**	**41.80**	**31.15**	**8.10**
350	**34.15**	**19.55**	**64.95**	**10.60**	**45.45**	**34.20**	**8.10**
400	**40.15**	**21.70**	**66.85**	**10.60**	**49.60**	**38.05**	**10.30**
450	**43.90**	**23.45**	**70.00**	**10.60**	**53.15**	**41.90**	**10.30**
500	**47.45**	**26.10**	**76.30**	**12.90**	**57.00**	**45.80**	**10.30**
550	**51.05**	**28.65**	**79.55**	**12.90**	**60.85**	**49.65**	**12.50**

larger crown widths / thicknesses / intermediate sizes, see MAK-B 5.3.

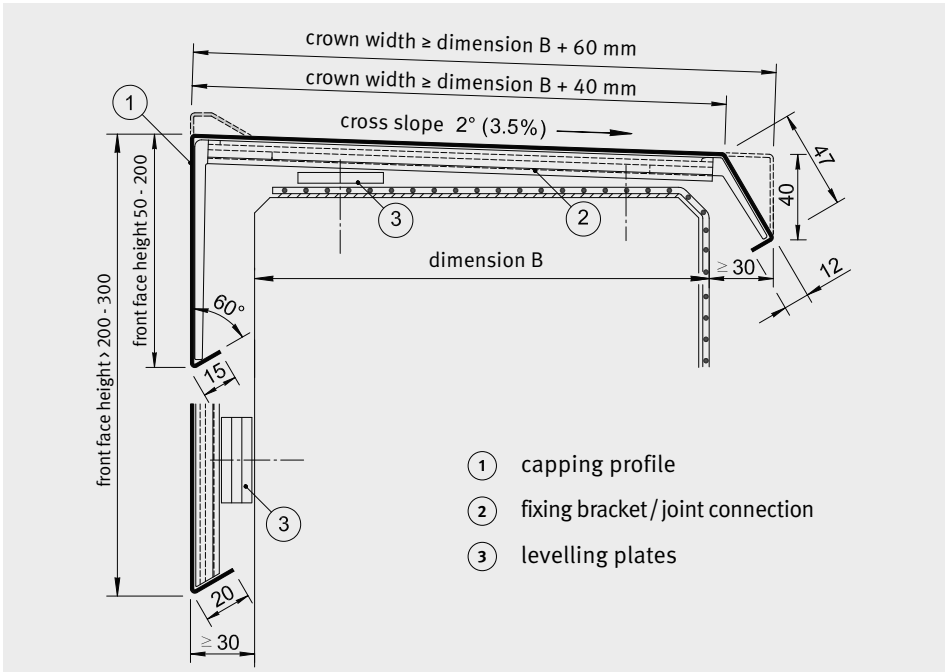
Scope of delivery MAG 125/150 (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

per m profile	per 90° external corner	per 90° internal corner
0.2 bars wall capping at 5.00 m 0.6 bracket / joining plate crown width 150 – 250 mm 0.8 bracket / joining plate crown width 275 – 350 mm 1.0 bracket / joining plate crown width 400 + 450 mm 1.2 bracket / joining plate crown width 500 + 550 mm Levelling plates	Capping external corner 1 bracket / joining plate 2 corner bracket (front face) Levelling plates	Capping internal corner 1 bracket / joining plate 2 corner bracket (Back face height) Levelling plates

Order information: MAG (Crown width) / (Front face height)

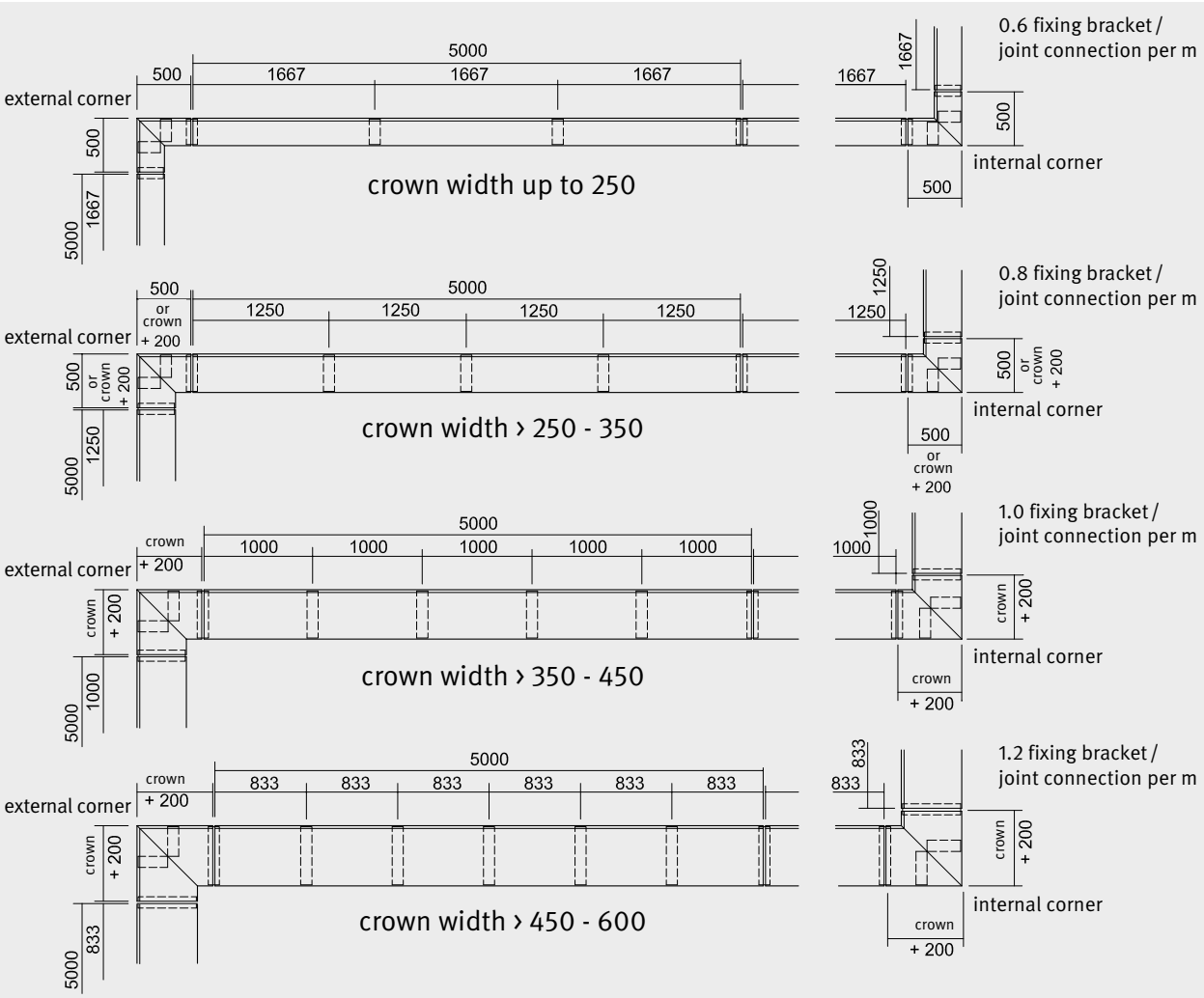
For further information and additional delivery conditions see page 66

Wall capping profile MAK



MAK
Front face height 50 - 300 mm, Back face height 47 / 40 mm

Profile



Fixing bracket / joint connection 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 brackets are required (according to DIN EN 1991-1-4).

For further information and additional delivery conditions see page 66

Wall capping profile MAK

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Wall capping profile MAK Front face height 50 – 300 mm										
Front face height mm	**Girth up to** (Crown width max. 600 mm) mm	**Mill finish protection foiled** incl. access. €/m [1]		Surcharge **Colour coating** €/m	**Bracket/ Joint connections** €/piece	Surcharge **90° corner Mill finish** €/piece	Surcharge **Colour coating 90° corners** €/piece	closed **Stop ends Mill finish** €/piece	**Wall abutments Mill finish** €/piece	Surcharge **Colour coating Stop ends/ Wall abutments** €/piece
		1.5 mm	**2.0 mm**							
up to 200	250	**20.40**	**23.60**	**10.85**	**8.85**	**46.15**	**7.05**	**22.25**	**18.95**	**4.95**
	275	**21.70**	**25.20**	**11.55**	**9.30**	**48.35**	**7.05**	**23.15**	**18.95**	**4.95**
	300	**22.90**	**26.80**	**11.85**	**9.55**	**50.85**	**7.05**	**24.40**	**18.95**	**4.95**
	325	**24.20**	**28.35**	**12.60**	**9.70**	**54.85**	**7.05**	**26.60**	**18.95**	**4.95**
	350	**25.35**	**29.90**	**13.25**	**9.95**	**56.30**	**7.05**	**28.50**	**18.95**	**4.95**
	375	**26.65**	**31.50**	**14.30**	**10.15**	**57.75**	**7.05**	**30.95**	**20.10**	**8.10**
	400	**28.00**	**33.00**	**15.00**	**10.45**	**59.15**	**7.05**	**32.90**	**22.20**	**8.10**
	425	**30.30**	**35.50**	**15.95**	**10.80**	**57.90**	**7.05**	**34.60**	**24.15**	**8.10**
	450	**31.60**	**37.05**	**16.50**	**10.90**	**59.60**	**7.05**	**35.25**	**25.70**	**8.10**
	475	**32.85**	**38.70**	**17.30**	**11.05**	**62.45**	**10.60**	**37.50**	**28.05**	**8.10**
	500	**34.20**	**40.30**	**17.65**	**11.25**	**62.95**	**10.60**	**40.55**	**29.20**	**8.10**
	525	**37.85**	**44.30**	**18.90**	**11.55**	**63.50**	**10.60**	**42.85**	**31.20**	**8.10**
	550	**39.25**	**45.95**	**19.20**	**11.75**	**63.65**	**10.60**	**43.70**	**32.15**	**8.10**
	575	**40.65**	**47.70**	**19.90**	**12.00**	**64.75**	**10.60**	**47.05**	**35.30**	**10.30**
	600	**42.10**	**49.35**	**21.30**	**12.15**	**65.70**	**10.60**	**48.25**	**37.05**	**10.30**
	625	**45.95**	**53.50**	**22.10**	**12.40**	**67.35**	**10.60**	**50.45**	**38.70**	**10.30**
	650	**47.60**	**55.55**	**22.60**	**12.90**	**69.25**	**10.60**	**51.45**	**40.90**	**10.30**
	675	**49.05**	**57.30**	**23.90**	**13.05**	**74.75**	**12.90**	**54.05**	**42.45**	**10.30**
	700		**59.00**	**25.45**	**13.25**	**75.15**	**12.90**	**55.85**	**44.35**	**10.30**
	725		**60.75**	**26.55**	**13.50**	**77.70**	**12.90**	**58.25**	**46.25**	**10.30**
	750		**62.85**	**27.35**	**13.95**	**78.45**	**12.90**	**59.45**	**47.55**	**10.30**
	775		**64.50**	**27.85**	**14.20**	**78.95**	**12.90**	**59.60**	**48.35**	**10.30**
	800		**66.20**	**28.25**	**14.40**	**79.50**	**12.90**	**60.80**	**49.25**	**10.30**
	825		**68.00**	**28.60**	**14.60**	**80.35**	**12.90**	**61.95**	**49.75**	**10.30**
	850		**69.75**	**29.05**	**14.85**	**81.15**	**12.90**	**63.30**	**50.75**	**10.30**
over 200 up to 300	500	**36.45**	**42.75**	**18.45**	**17.75**	**64.65**	**10.60**	**41.60**	**30.00**	**8.10**
	525	**41.40**	**47.60**	**19.75**	**17.90**	**65.25**	**10.60**	**44.05**	**32.10**	**8.10**
	550	**42.80**	**49.65**	**20.10**	**18.15**	**65.30**	**10.60**	**44.90**	**33.00**	**8.10**
	575	**44.20**	**51.45**	**20.85**	**18.35**	**66.50**	**10.60**	**48.30**	**36.25**	**10.30**
	600	**45.55**	**53.10**	**21.30**	**18.55**	**67.45**	**10.60**	**49.55**	**38.00**	**10.30**
	625	**50.65**	**58.55**	**22.10**	**18.90**	**69.20**	**10.60**	**51.90**	**39.70**	**10.30**
	650	**52.40**	**60.55**	**22.60**	**19.30**	**71.10**	**10.60**	**52.85**	**42.00**	**10.30**
	675	**53.80**	**62.20**	**23.90**	**19.50**	**76.75**	**12.90**	**55.45**	**43.60**	**10.30**
	700		**64.00**	**25.45**	**19.70**	**77.15**	**12.90**	**57.35**	**45.50**	**10.30**
	725		**69.75**	**26.55**	**19.95**	**79.80**	**12.90**	**59.75**	**47.50**	**10.30**
	750		**71.30**	**27.35**	**20.20**	**80.55**	**12.90**	**60.95**	**48.75**	**10.30**
	775		**73.70**	**27.85**	**20.65**	**81.10**	**12.90**	**61.15**	**49.65**	**10.30**
	800		**75.30**	**28.25**	**20.90**	**81.70**	**12.90**	**62.40**	**50.50**	**10.30**
	825		**77.15**	**28.60**	**21.15**	**82.45**	**12.90**	**63.60**	**51.10**	**10.30**
	850		**78.90**	**29.05**	**21.35**	**83.35**	**12.90**	**65.00**	**52.10**	**10.30**

Crown widths: 150 up to 500 mm in 1.5 and 2.0 mm thick aluminium sheet
› 500 up to 600 mm in 2.0 mm aluminium sheet

larger crown widths / front faces / sheet thicknesses / developments on request

[1] prices only for MAK 4.1 / 4.2 - surcharges for MAK 5.1 / 5.2: 1.00 €/m

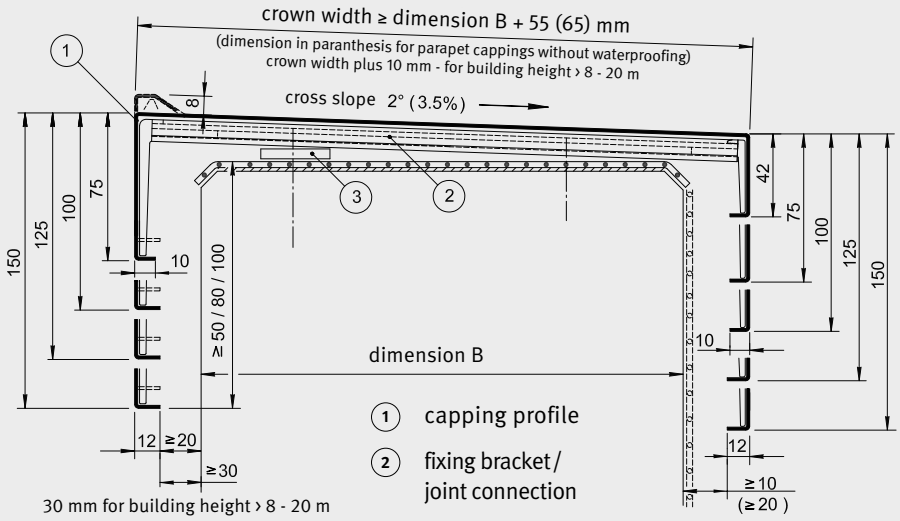
Scope of delivery MAK (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)

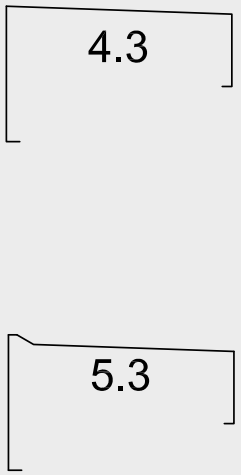
per m profile	**per 90° external corner**	**per 90° internal corner**
0.2 bars wall capping at 5.00 m 0.6 bracket / joining plate crown width up to 250 mm 0.8 bracket / joining plate crown width › 250 – 350 mm 1.0 bracket / joining plate crown width › 350 – 450 mm 1.2 bracket / joining plate crown width › 450 – 600 mm Levelling plates	Capping external corner 1 bracket / joint connection 2 corner bracket (front face) Levelling plates	Capping internal corner 1 bracket / joint connection 2 corner bracket (Back face height) Levelling plates

Order information: MAK (Crown width) / (Front face height) / (Form of profile) / (Thickness)

For further information and additional delivery conditions see page 66

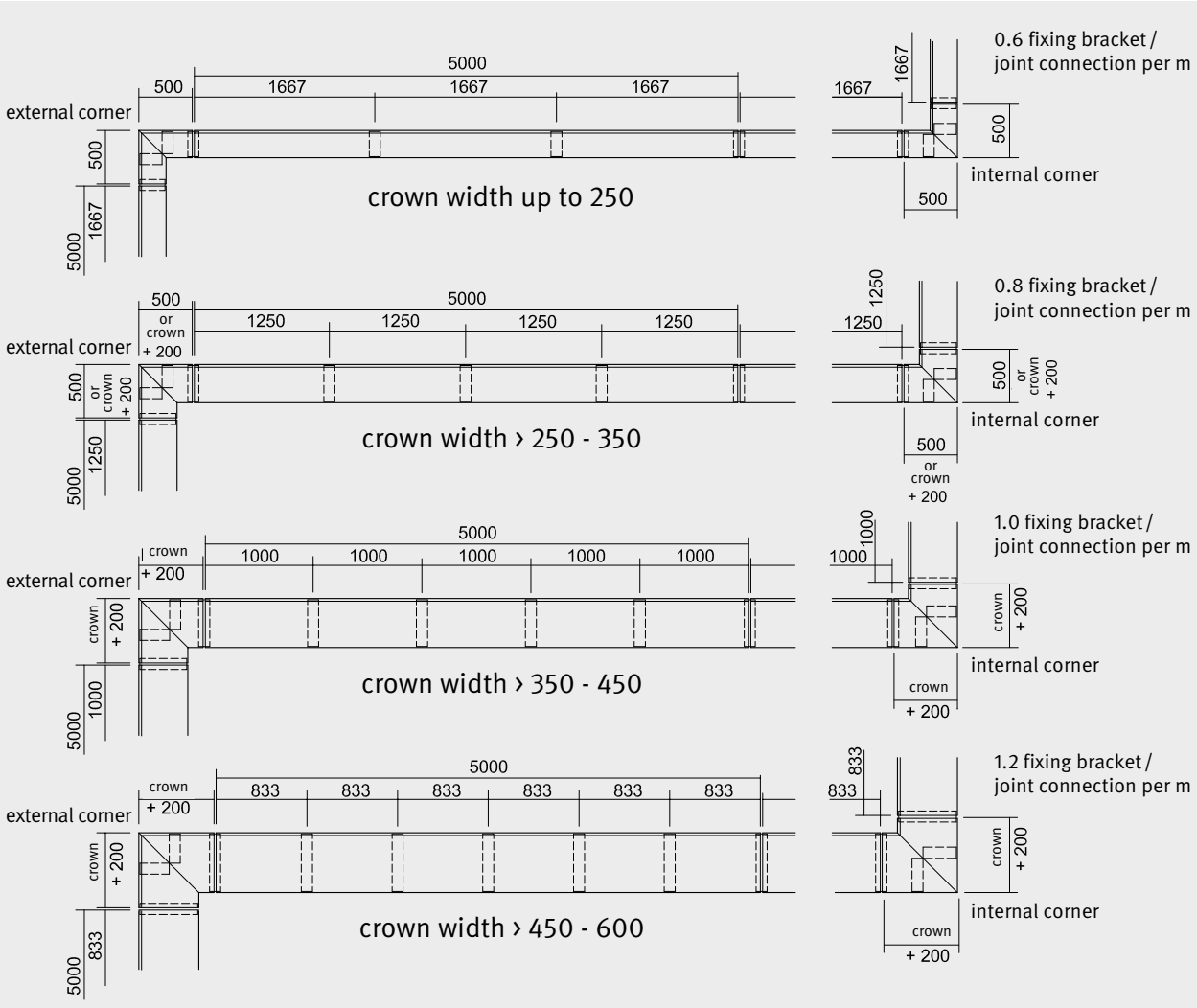
Wall capping profile MAK-B





MAK-B
Front face height 75, 100, 125, 150 mm - Back face height 42, 75, 100, 125, 150 / 47 mm

Profile



Fixing bracket / joint connection position for building height up to 20 m
For buildings in wind zone WZ 3 + WZ 4, exposed location, building over 20 m, additional brackets are required (according to DIN EN 1991-1-4).

For further information and additional delivery conditions see page 66

Wall capping profile MAK-B

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Wall capping profile MAK-B Front face height 75, 100, 125, 150 mm									
Girth up to (Crown width max. 600 mm) **mm**	**Mill finish protection foiled** incl. access. **€/m**[1]		Surcharge **Colour coating** **€/m**	**Bracket/ Joint connections** **€/piece**	Surcharge **90° corners Mill finish** **€/piece**	Surcharge **Colour coating 90° corners** **€/piece**	closed **Stop ends Mill finish** **€/piece**	**Wall abutments Mill finish** **€/piece**	Surcharge **Colour coating Stop ends/ Wall abutments** **€/piece**
	1.5 mm	**2.0 mm**							
350	**25.35**	**29.90**	**13.25**	**9.95**	**56.30**	**7.05**	**28.50**	**18.95**	**4.95**
375	**26.65**	**31.50**	**14.30**	**10.15**	**57.75**	**7.05**	**30.95**	**20.10**	**8.10**
400	**28.00**	**33.00**	**15.00**	**10.45**	**59.15**	**7.05**	**32.90**	**22.20**	**8.10**
425	**30.30**	**35.50**	**15.95**	**10.65**	**59.05**	**7.05**	**34.60**	**24.15**	**8.10**
450	**31.60**	**37.05**	**16.50**	**10.90**	**59.60**	**7.05**	**35.25**	**25.70**	**8.10**
475	**32.85**	**38.70**	**17.30**	**11.05**	**62.45**	**10.60**	**37.50**	**28.05**	**8.10**
500	**34.20**	**40.30**	**17.65**	**11.25**	**62.95**	**10.60**	**40.55**	**29.20**	**8.10**
525	**37.85**	**44.30**	**18.90**	**11.55**	**63.50**	**10.60**	**42.85**	**31.20**	**8.10**
550	**39.25**	**45.95**	**19.20**	**11.75**	**63.65**	**10.60**	**43.70**	**32.15**	**8.10**
575	**40.65**	**47.70**	**19.90**	**12.00**	**64.75**	**10.60**	**47.05**	**35.30**	**10.30**
600	**42.10**	**49.35**	**21.30**	**12.15**	**65.70**	**10.60**	**48.25**	**37.05**	**10.30**
625	**45.95**	**53.50**	**22.10**	**12.40**	**67.35**	**10.60**	**50.45**	**38.70**	**10.30**
650	**47.60**	**55.55**	**22.60**	**12.90**	**69.25**	**10.60**	**51.45**	**40.90**	**10.30**
675	**49.05**	**57.30**	**23.90**	**13.05**	**74.75**	**12.90**	**54.05**	**42.45**	**10.30**
700		**59.00**	**25.45**	**13.25**	**75.15**	**12.90**	**55.85**	**44.35**	**10.30**
725		**60.75**	**26.55**	**13.50**	**77.70**	**12.90**	**58.25**	**46.25**	**10.30**
750		**62.85**	**27.35**	**13.95**	**78.45**	**12.90**	**59.35**	**47.55**	**10.30**
775		**64.50**	**27.85**	**14.20**	**78.95**	**12.90**	**59.60**	**48.35**	**10.30**
800		**66.20**	**28.25**	**14.40**	**79.50**	**12.90**	**60.80**	**49.25**	**10.30**
825		**68.00**	**28.60**	**14.60**	**80.35**	**12.90**	**61.95**	**49.75**	**10.30**
850		**69.75**	**29.05**	**14.85**	**81.15**	**12.90**	**63.30**	**50.75**	**10.30**
Crown widths: 150 up to 500 mm in 1.5 and 2.0 mm thick aluminium sheet › 500 up to 600 mm in 2.0 mm aluminium sheet									
different front faces / back faces / larger crown widths / sheet thicknesses on request.									
[1] prices only for MAK-B 4.3, surcharge for MAK-B 5.3: 1.00 €/m									

Scope of delivery MAK-B (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)		
per m profile	**per 90° external corner**	**per 90° internal corner**
0.2 bars wall capping at 5.00 m 0.6 bracket / joining plate crown width bis 250 mm 0.8 bracket / joining plate crown width › 250 – 350 mm 1.0 bracket / joining plate crown width › 350 – 450 mm 1.2 Bracket / Joining plate Crown width › 450 – 600 mm Levelling plates	Capping external corner 1 bracket / joint connections 2 corner bracket (front face) Levelling plates	Capping internal corner 1 bracket / joint connections 2 corner bracket (Back face height) Levelling plates

Order information: MAK-B (Crown width) / (Front face height) / (Back face height) / (Form of profile) / (Thickness)

For further information and additional delivery conditions see page 66

Wall capping profile MAK-C

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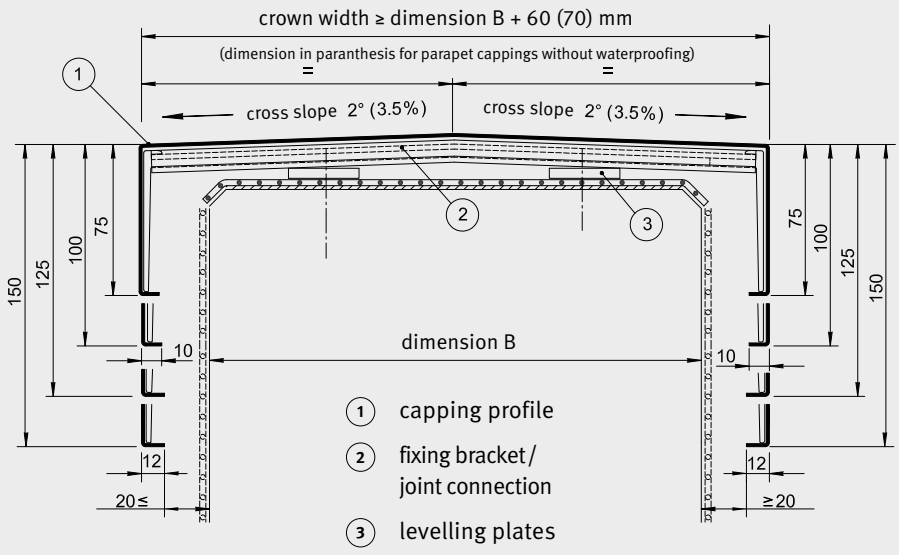
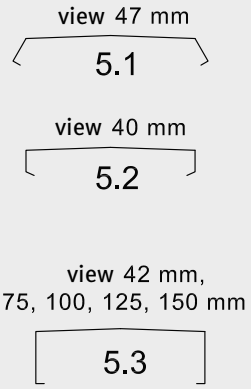
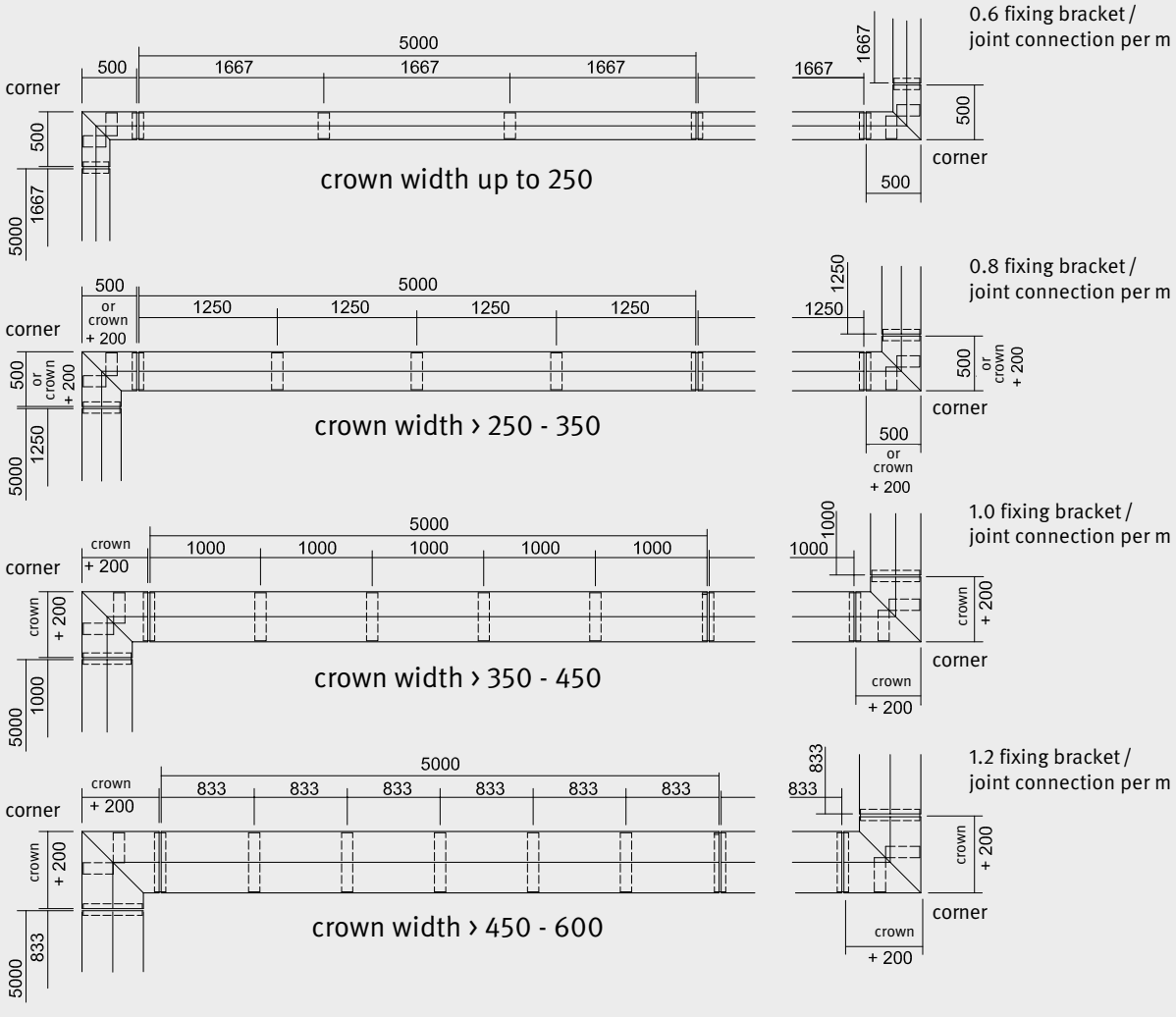


MAK-C
Front face height 75, 100, 125, 150 mm (Back face height 42, 40, 47 mm like MAG and MAK)



Profile



Fixing bracket / joint connection 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 brackets are required (according to DIN EN 1991-1-4).

For further information and additional delivery conditions see page 66

Wall capping profile MAK-C

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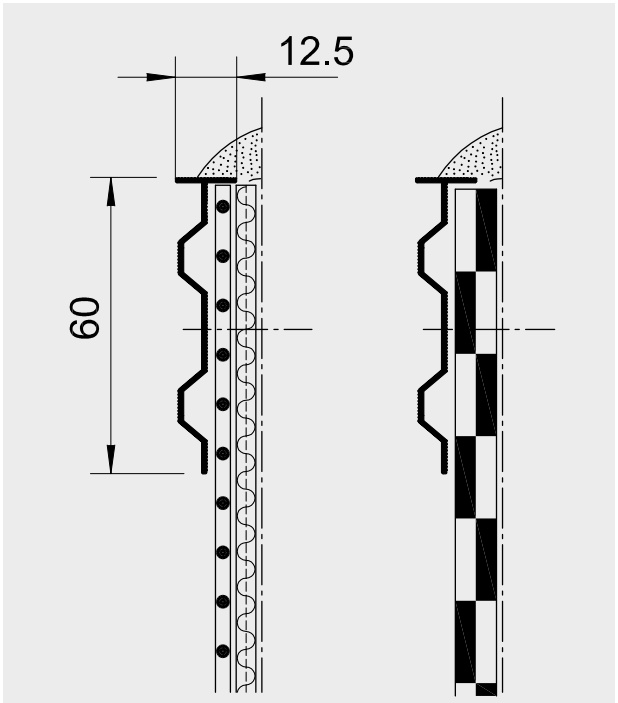
Wall capping profile MAK-C Front face height 75, 100, 125, 150, 42, 40, 47 mm									
Girth up to (Crown width max. 600 mm) **mm**	**Mill finish protection foiled** incl. access. **€/m**		Surcharge **Colour coating** **€/m**	**Bracket/ Joint connections** **€/piece**	Surcharge **90° corners Mill finish** **€/piece**	Surcharge **Colour coating 90° corners** **€/piece**	closed **End cap Mill finish** **€/piece**	**Wall abutments Mill finish** **€/piece**	Surcharge **Colour coating Stop ends/ Wall abutments** **€/piece**
	1.5 mm	**2.0 mm**							
250	**22.50**	**25.65**	**10.85**	**10.55**	**46.15**	**7.05**	**23.90**	**20.60**	**4.95**
275	**23.80**	**27.30**	**11.55**	**10.95**	**48.35**	**7.05**	**24.85**	**20.60**	**4.95**
300	**25.00**	**28.85**	**11.85**	**11.15**	**50.85**	**7.05**	**26.10**	**20.60**	**4.95**
325	**26.30**	**30.45**	**12.60**	**11.30**	**54.85**	**7.05**	**28.30**	**20.60**	**4.95**
350	**27.45**	**32.00**	**13.25**	**11.60**	**56.30**	**7.05**	**30.15**	**20.60**	**4.95**
375	**31.10**	**35.90**	**14.30**	**11.85**	**57.75**	**7.05**	**32.65**	**21.75**	**8.10**
400	**32.45**	**37.50**	**15.00**	**12.10**	**59.15**	**7.05**	**34.55**	**23.85**	**8.10**
425	**33.25**	**38.65**	**15.95**	**12.45**	**59.05**	**7.05**	**36.95**	**25.85**	**8.10**
450	**34.60**	**40.20**	**16.50**	**12.65**	**60.75**	**7.05**	**37.55**	**27.80**	**8.10**
475	**37.75**	**43.55**	**17.30**	**12.75**	**62.45**	**10.60**	**39.10**	**29.65**	**8.10**
500	**39.15**	**45.20**	**17.65**	**12.90**	**62.95**	**10.60**	**42.20**	**30.80**	**8.10**
525	**40.45**	**46.85**	**18.90**	**13.05**	**63.50**	**10.60**	**44.50**	**32.85**	**8.10**
550	**41.95**	**48.60**	**19.20**	**13.30**	**63.65**	**10.60**	**45.30**	**33.80**	**8.10**
575	**46.10**	**53.10**	**19.90**	**13.60**	**64.75**	**10.60**	**48.65**	**36.90**	**10.30**
600	**47.70**	**54.95**	**21.30**	**13.85**	**65.70**	**10.60**	**49.85**	**38.70**	**10.30**
625	**48.95**	**56.50**	**22.10**	**14.05**	**67.35**	**10.60**	**52.05**	**40.30**	**10.30**
650	**50.60**	**58.60**	**22.60**	**14.50**	**69.25**	**10.60**	**53.05**	**42.50**	**10.30**
675	**52.05**	**60.30**	**23.90**	**14.65**	**74.75**	**12.90**	**55.65**	**44.05**	**10.30**
700		**62.05**	**25.45**	**14.85**	**75.15**	**12.90**	**57.45**	**45.95**	**10.30**
725		**63.75**	**26.55**	**15.05**	**77.70**	**12.90**	**59.80**	**47.90**	**10.30**
750		**65.85**	**27.35**	**15.60**	**78.45**	**12.90**	**60.95**	**49.15**	**10.30**
775		**67.55**	**27.85**	**15.80**	**78.95**	**12.90**	**61.20**	**50.00**	**10.30**
800		**69.00**	**28.25**	**16.00**	**79.50**	**12.90**	**62.40**	**50.80**	**10.30**
825		**71.05**	**28.60**	**16.20**	**80.35**	**12.90**	**63.50**	**51.40**	**10.30**
Crown widths: 150 up to 500 mm in 1.5 and 2.0 mm thick aluminium sheet › 500 up to 600 mm in 2.0 mm aluminium sheet									
different front faces / larger crown widths / sheet thicknesses on request									

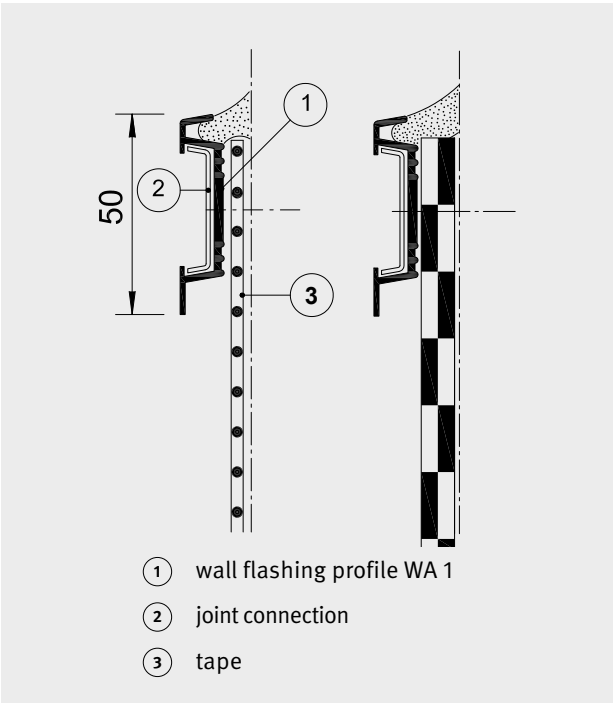
Scope of delivery MAK-C (building height up to 20 m, non-exposed location, wind zone WZ 1 and WZ 2, according to DIN EN 1991-1-4)		
per m profile	**per 90° external corner**	**per 90° internal corner**
0.2 bars wall capping at 5.00 m 0.6 bracket / joining plate crown width bis 250 mm 0.8 bracket / joining plate crown width › 250 – 350 mm 1.0 bracket / joining plate crown width › 350 – 450 mm 1.2 Bracket / Joining plate Crown width › 450 – 600 mm Levelling plates	Capping external corner 1 bracket / joint connections 2 corner brackets (front face) Levelling plates	Capping internal corner 1 bracket / joint connections 2 corner brackets (Back face height) Levelling plates

Order information: MAK-C (Crown width) / (Front face height) / (Form of profile) / (Thickness)

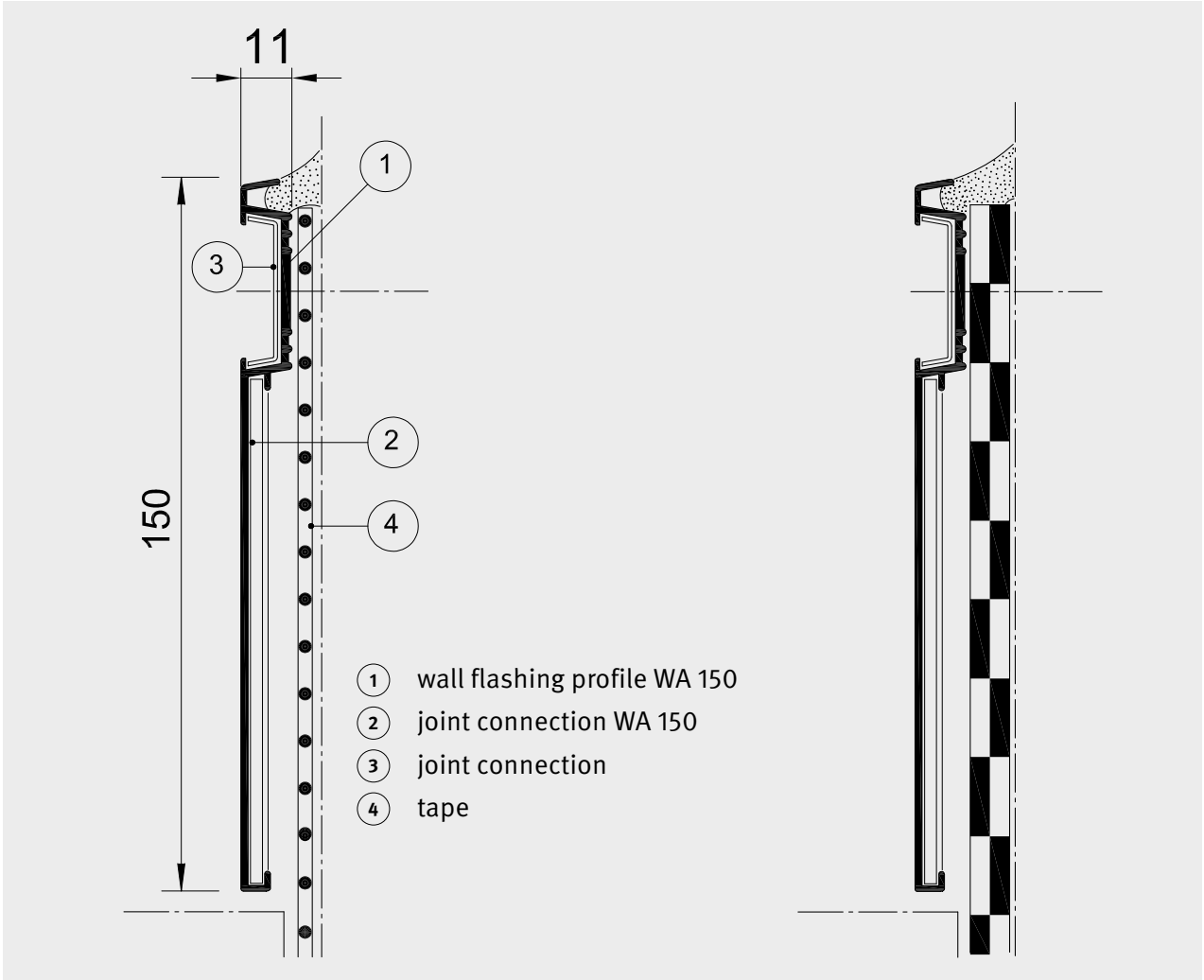
For further information and additional delivery conditions see page 66



FP 60



WA 1



WA 150

For further information and additional delivery conditions see page 66

Wall flashing profiles FP 60, WA 1, WA 150

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Wall flashing profile FP 60		
Profile nominal height **mm**	**Packing unit** **Pallet at 42 cartons** **bar x m**	**Mill finish** **€/m**
60	33 x 3.00	**2.15**

Scope of delivery FP 60
per m profile
0.33 bars FP 60 at 3.00 m, perforated ø 8 mm in e = 194 mm

Wall flashing profile WA 1							
Profile nominal height **mm**	**Packing unit** **bar x m**	**Mill finish** incl. access. **€/m**	Surcharge **Colour coating** **€/m**	Surcharge **90° corners Mill finish** **€/piece**	Surcharge **Colour coating 90° corners** **€/piece**	closed **Stop ends Mill finish** **€/piece**	Surcharge **Colour coating Stop ends** **€/piece**
50	67 x 3	**3.70**	**2.60**	**3.25**	**4.70**	**-**	**-**

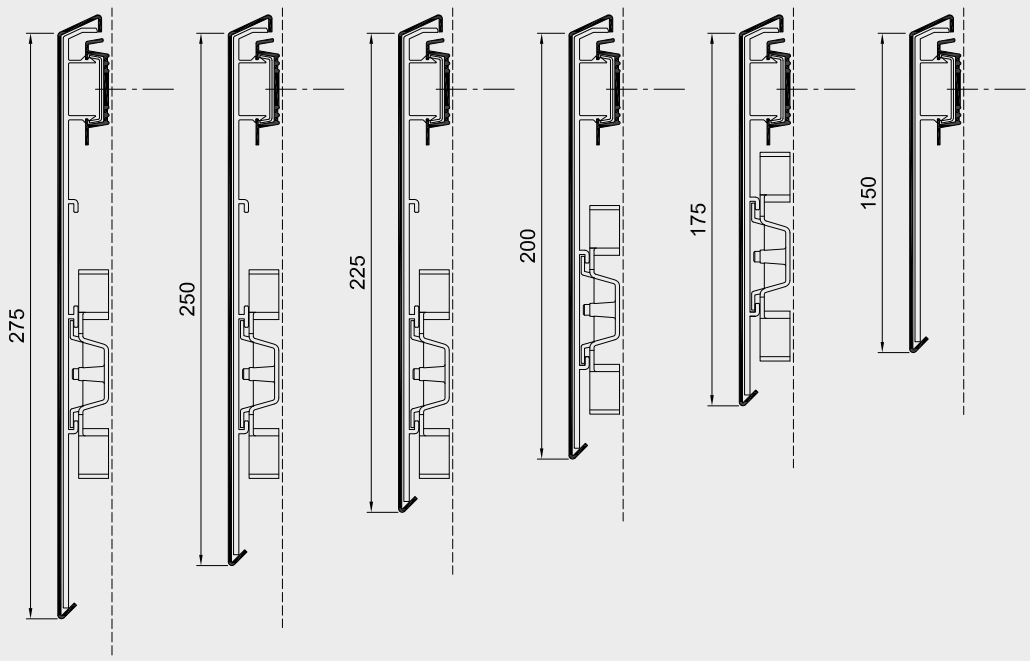
Scope of delivery WA 1	
per m profile	**per corner**
0.33 bars WA 1 profile at 3.00 m, perforated 6.5 x 8 mm in e = 192 mm 0.33 pieces joint connections	adjustable wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 pieces joint connections

Wall flashing profile WA 150							
Profile nominal height **mm**	**Packing unit** **bar x m**	**Mill finish** incl. access. **€/m**	Surcharge **Colour coating** **€/m**	Surcharge **90° corners Mill finish** **€/piece**	Surcharge **Colour coating 90° corners** **€/piece**	closed **Stop ends Mill finish** **€/piece**	Surcharge **Colour coating Stop ends** **€/piece**
150	20 x 3	**11.05**	**8.65**	**9.80**	**7.05**	**17.30**	**3.75**

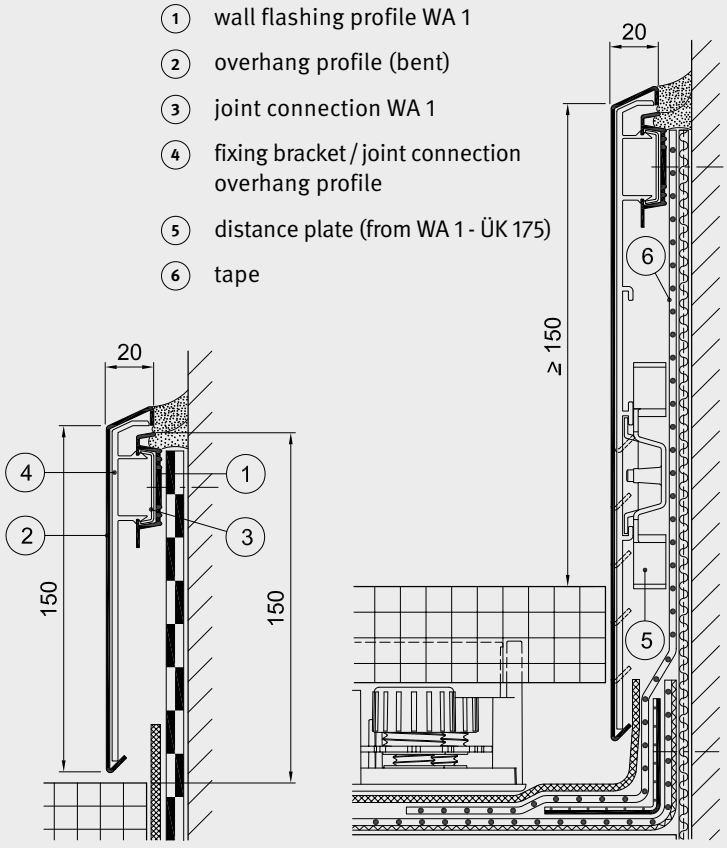
Scope of delivery WA 150	
per m profile	**per corner**
0.33 bars WA 150 profile at 3.00 m, perforated ø 8.5 mm in e = 192 mm, 0.33 pieces joint connections 0.33 pieces joint connections WA 150	Wall flashing corner (19/19 cm), perforated ø 8.5 mm 2 pieces joint connections WA 1 2 piece joint connections WA 150

Prefabricated parts W	
internal corner for parapets EVALON® (colour white/light grey/slate grey) EVALASTIC® (colour light grey) **€/piece**	**external corner** for parapets EVALON® (colour white/light grey/slate grey) EVALASTIC® (colour light grey) **€/piece**
4.95 (EVALON®) / **5.05** (EVALASTIC®)	**4.95** (EVALON®) / **5.05** (EVALASTIC®)

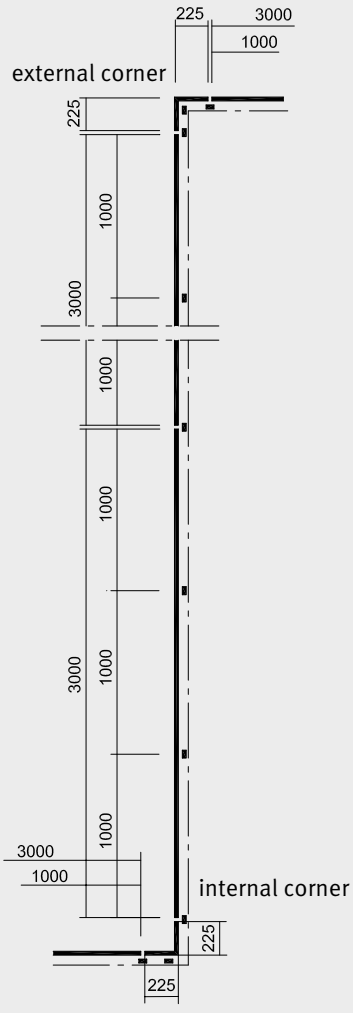
For further information and additional delivery conditions see page 66



WA 1 - ÜK
Profile nominal height 150, 175, 200, 225, 250, 275 mm



WA 1 - ÜK



Arrangement of brackets

For further information and additional delivery conditions see page 66

Wall flashing profile WA 1 - ÜK

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Wall flashing profile WA 1 - ÜK with covered fastening							
Profile nominal height	**Packing unit**	**Mill finish** incl. access.	Surcharge **Colour coating**	Surcharge **90° corners Mill finish**	Surcharge **Colour coating 90° corners**	closed **Stop ends Mill finish**	Surcharge **Colour coating Stop ends**
mm	**Bars x m**	**€/m**	**€/m**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
150	20 x 3	**16.35**	**8.65**	**23.75**	**7.05**	**17.30**	**3.75**
175	20 x 3	**20.35**	**9.80**	**24.50**	**7.05**	**17.30**	**3.75**
200	20 x 3	**21.30**	**11.00**	**24.95**	**7.05**	**17.30**	**3.75**
225	20 x 3	**22.20**	**12.10**	**25.40**	**7.05**	**18.70**	**3.75**
250	20 x 3	**23.05**	**13.25**	**25.90**	**7.05**	**20.05**	**3.75**
275	20 x 3	**23.95**	**14.40**	**26.30**	**7.05**	**21.50**	**3.75**

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 pieces joint connections WA 1 0.33 bars overhang profile at 3.00 m 1 piece bracket/joint connection for overhang profile 1 piece distance plate (for WA 1 - ÜK 175)	Wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 pieces joint connections WA 1 Overhang profile corner (22.5/22.5 cm) 2 pieces bracket/joint connections for overhang profile 2 pieces distance plate (for WA 1 - ÜK 175)

Tapes	**Width cm**	**EVALON® Nominal thickness 1.5 mm €/m**	**EVALASTIC® Nominal thickness 1.5 mm €/m**
	33	**6.55**	**6.65**
	50	**9.75**	**9.90**

Self-adhesive tapes	**Width cm**	**EVALON® VSKA, 1.5 mm €/m**	**EVALASTIC® VSKA, 1.5 mm €/m**
	33	**8.45**	**8.65**
	43	**10.85**	**11.15**

Formteile Serie W	
internal corner for parapets EVALON® (colour white/light grey/slate grey) EVALASTIC® (colour light grey) **€/piece**	**external corner** for parapets EVALON® (colour white/light grey/slate grey) EVALASTIC® (colour light grey) **€/piece**
4.95 (EVALON®) / **5.05** (EVALASTIC®)	**4.95** (EVALON®) / **5.05** (EVALASTIC®)

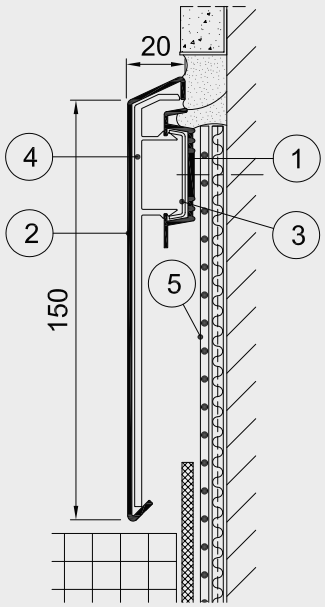
For further information and additional delivery conditions see page 66

Wall flashing profile WA 1 - Ü 150E

alwitra

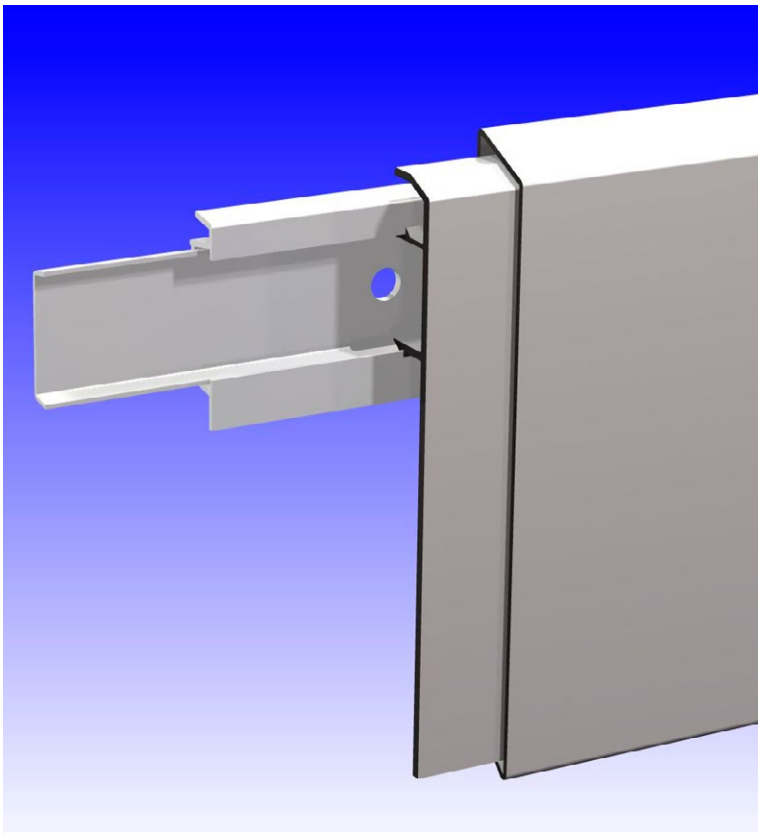
wall flashing profile WA 1 - Ü 150E (overhang profile, stop ends, anodized in E6/EV1) with covered fastening					
Nominal height **mm**	**Packing unit** **Bars x m**	incl. access. **€/m**	Surcharge **90° corners** **€/piece**	Closed **Stop ends** **€/piece**	note: the overhang profile Ü 150 E may not be combined with overhang profiles ÜK 150-275 due to different glosses!
150	20 x 3	**22.65**	**30.05**	**22.30**	

Scope of delivery WA 1 - Ü 150E	
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 piece joint connections WA 1 0.33 bars overhang profile **(anodized E6/EV1)** at 3.00 m 1 piece bracket/joint connections for overhang profile	Wall flashing corner (19/19 cm), perforated 6.5 x 8 mm 2 pieces joint connections WA 1 overhang profile corner **(anodized E6/EV1)** (22.5/22.5 cm) 2 pieces bracket/joining plate for overhang profile

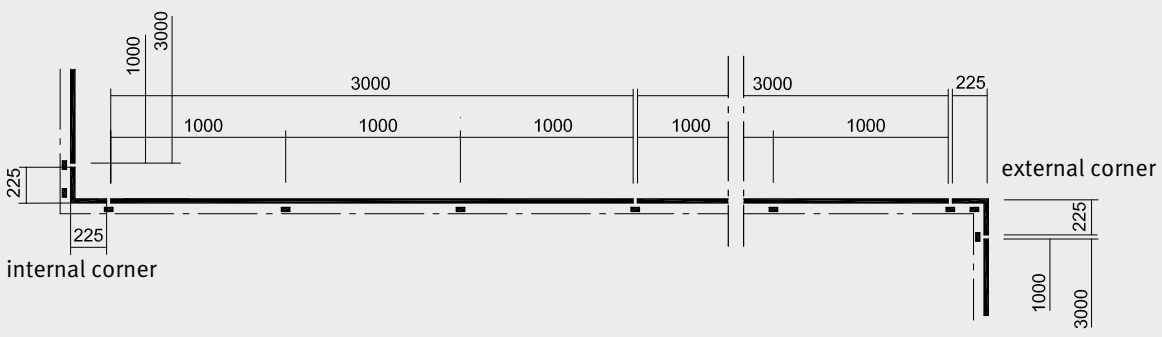


1. wall flashing profile WA 1
2. overhang profile (anodized in E6/EV1)
3. joint connection WA 1
4. fixing bracket / joint connection overhang profile
5. tape

WA 1 - Ü 150E

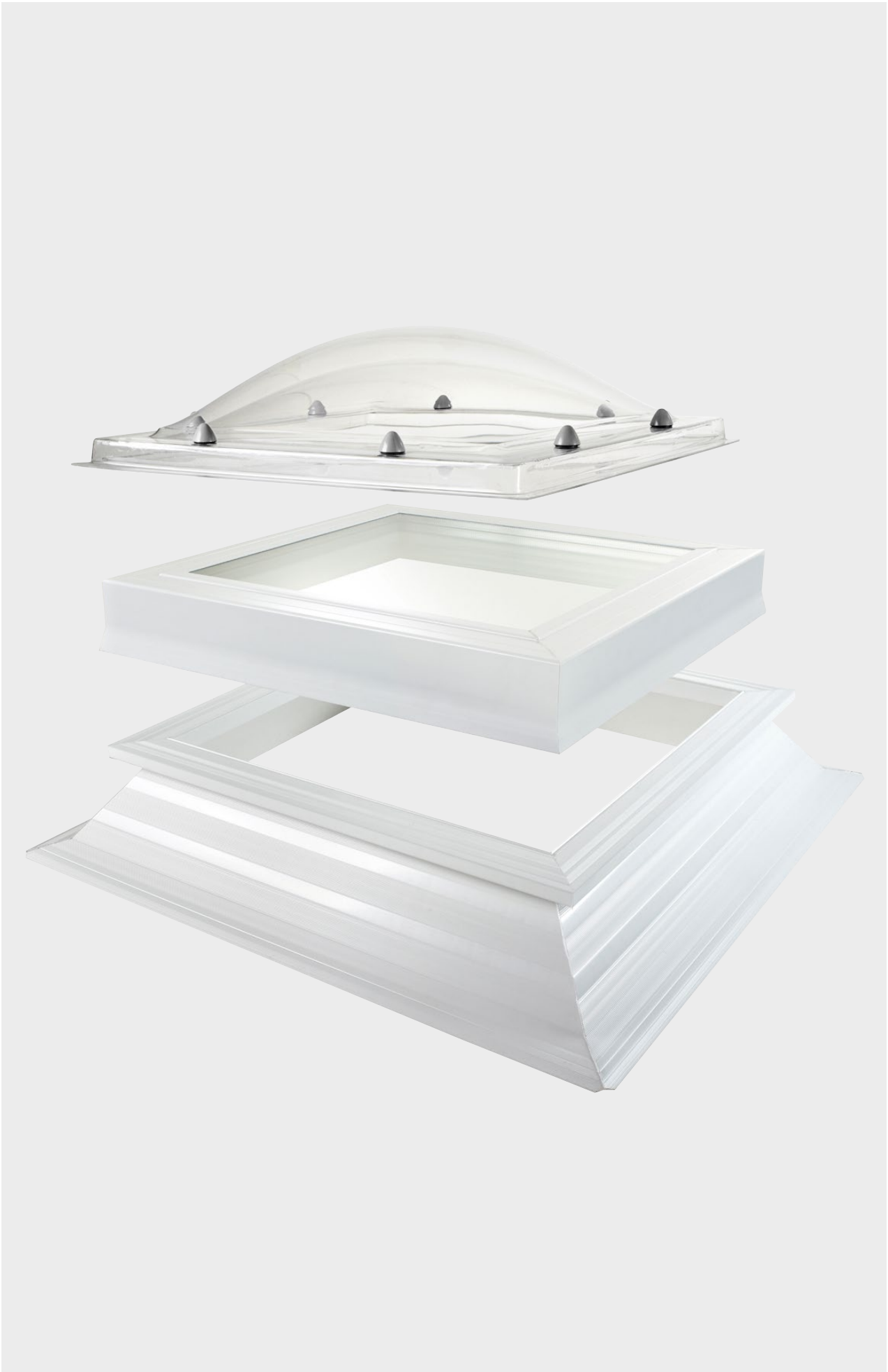


Wall flashing profile WA 1

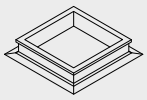
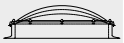
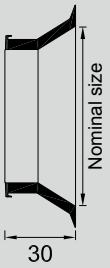


Arrangement of brackets

For further information and additional delivery conditions see page 66



For further information and additional delivery conditions see page 66

Rooflights										
	Upstand			Rooflight				Complete (Upstand + Rooflight)		
				U value: 2,68 [W/m²K]	U value: 1,70 [W/m²K]	U value: 1,23 [W/m²K]				
	Nominal size Upstand	Upstand €/piece		2S PMMA opal €/piece	3S PMMA opal €/piece	2S WD €/piece		Upstand + 2S rigid €/piece	Upstand + 3S rigid €/piece	Upstand + 2S WD rigid €/piece
Upstand 1620 Height: 16 cm U value: 0,92 [W/m²K] Nominal size = roof opening size **Daylight size = roof opening size - 20 cm**	**60 / 60**	193.00	+	97.00	135.00	168.00	=	**290.00**	**328.00**	**361.00**
	60 / 90	217.00		136.00	190.00	-		**353.00**	**407.00**	**-**
	80 / 80	229.00		161.00	220.00	272.00		**390.00**	**449.00**	**501.00**
	90 / 90	264.00		188.00	257.00	328.00		**452.00**	**521.00**	**592.00**
	90 / 120	288.00		240.00	328.00	410.00		**528.00**	**616.00**	**698.00**
	100 / 100	286.00		216.00	296.00	366.00		**502.00**	**582.00**	**652.00**
	100 / 150	338.00		315.00	435.00	579.00		**653.00**	**773.00**	**917.00**
	100 / 200	390.00		406.00	557.00	-		**796.00**	**947.00**	**-**
	120 / 120	317.00		281.00	389.00	498.00		**598.00**	**706.00**	**815.00**
	120 / 240	477.00		619.00	873.00	1,203.00		**1,096.00**	**1,350.00**	**1,680.00**
	150 / 150	390.00		446.00	617.00	762.00		**836.00**	**1,007.00**	**1,152.00**
 **Upstand 3020** Height: 30 cm U value: 1,0 [W/m²K] Nominal size = roof opening size **Daylight size = roof opening size - 20 cm**	**60 / 60**	316.00	+	97.00	135.00	168.00	=	**413.00**	**451.00**	**484.00**
	60 / 90	358.00		136.00	190.00	-		**494.00**	**548.00**	**-**
	80 / 80	370.00		161.00	220.00	272.00		**531.00**	**590.00**	**642.00**
	90 / 90	396.00		188.00	257.00	328.00		**584.00**	**653.00**	**724.00**
	90 / 120	436.00		240.00	328.00	410.00		**676.00**	**764.00**	**846.00**
	100 / 100	422.00		216.00	296.00	366.00		**638.00**	**718.00**	**788.00**
	100 / 150	490.00		315.00	435.00	579.00		**805.00**	**925.00**	**1,069.00**
	100 / 200	555.00		406.00	557.00	-		**961.00**	**1,112.00**	**-**
	120 / 120	474.00		281.00	389.00	498.00		**755.00**	**863 .00**	**972.00**
	120 / 240	632.00		619.00	873.00	1,203.00		**1,251.00**	**1,505.00**	**1,835.00**
	150 / 150	555.00		446.00	617.00	762.00		**1,001.00**	**1,172.00**	**1,317.00**
Upstand 1600 Height: 16 cm U value: 1,0 [W/m²K] Nominal size = roof opening size **Daylight size = roof opening size**	**60 / 60**	202.00	+	161.00	220.00	272,00	=	**363.00**	**422.00**	**474.00**
	60 / 90	239.00		214.00	295.00	430.00		**453.00**	**534.00**	**669.00**
	80 / 80	252.00		216.00	296.00	366.00		**468.00**	**548.00**	**618.00**
	90 / 90	266.00		268.00	366.00	455.00		**534.00**	**632.00**	**721.00**
	90 / 120	297.00		327.00	452.00	608.00		**624.00**	**749.00**	**905.00**
	100 / 100	279.00		281.00	389.00	498.00		**560.00**	**668.00**	**777.00**
	100 / 150	339.00		410.00	564.00	788.00		**749.00**	**903.00**	**1,127.00**
	100 / 200	392.00		535.00	754.00	951.00		**927.00**	**1,146.00**	**1,343.00**
	120 / 120	321.00		397.00	548.00	707.00		**718.00**	**869.00**	**1,028.00**
	120 / 240	465.00		994.00	1,412.00	-		**1,459.00**	**1,877.00**	**-**
	150 / 150	392.00		738.00	1,044.00	-		**1,130.00**	**1,436.00**	**-**

For further information and additional delivery conditions see page 66

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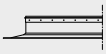
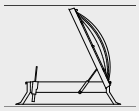
Rooflights accessories								
Flashing collar		**Öffnungssysteme**			**Dachausstiege (DA)**			
								
Factory-fitted flashing collar EVALON®/ EVALASTIC® €/piece	Vent frame with hinges without opening mechanism €/piece	Manual opening incl. vent frame €/piece	Electric opening 230 V incl. vent frame €/piece	NRA type 24 incl. vent frame €/piece	Manual roof hatch with lockable opener incl. vent frame €/piece	Manual opening with manual roof hatch incl. vent frame €/piece	Electric opening 230 V with manual roof hatch incl. vent frame €/piece	NRA type 24 with roof hatch incl. vent frame €/piece
144.00	138.00	227.00	482.00	542.00 [1]	-	-	-	-
152.00	146.00	235.00	490.00	550.00 [1]	-	-	-	-
155.00	153.00	242.00	497.00	557.00 [1]	323.00	412.00	667.00	727.00 [1]
160.00	157.00	246.00	501.00	561.00 [1]	327.00	416.00	671.00	731.00 [1]
169.00	166.00	255.00	510.00	570.00 [1]	336.00	425.00	680.00	740.00 [1]
166.00	163.00	252.00	507.00	567.00 [1]	333.00	422.00	677.00	737.00 [1]
180.00	187.00	276.00	531.00	591.00 [2]	357.00	446.00	701.00	761.00 [2]
194.00	216.00	521.00 T	904.00 T	995.00 T [2]	-	-	-	-
177.00	173.00	262.00	517.00	577.00 [2]	343.00	432.00	687.00	747.00 [2]
211.00	239.00	544.00 T	927.00 T	1,047.00 T [2]	-	-	-	-
194.00	209.00	298.00	553.00	613.00 [2]	-	-	-	-
144.00	138.00	227.00	482.00	542.00 [1]	-	-	-	-
152.00	146.00	235.00	490.00	550.00 [1]	-	-	-	-
155.00	153.00	242.00	497.00	557.00 [1]	323.00	412.00	667.00	727.00 [1]
160.00	157.00	246.00	501.00	561.00 [1]	327.00	416.00	671.00	731.00 [1]
169.00	166.00	255.00	510.00	570.00 [1]	336.00	425.00	680.00	740.00 [1]
166.00	163.00	252.00	507.00	567.00 [1]	333.00	422.00	677.00	737.00 [1]
180.00	187.00	276.00	531.00	591.00 [2]	357.00	446.00	701.00	761.00 [2]
194.00	216.00	521.00 T	904.00 T	995.00 T [2]	-	-	-	-
177.00	173.00	262.00	517.00	577.00 [2]	343.00	432.00	687.00	747.00 [2]
211.00	239.00	544.00 T	927.00 T	1,047.00 T [2]	-	-	-	-
194.00	209.00	298.00	553.00	613.00 [2]	-	-	-	-
144.00	153.00	242.00	497.00	-	323.00	412.00	667.00	-
152.00	160.00	249.00	504.00	-	330.00	419.00	674.00	-
155.00	163.00	252.00	507.00	-	333.00	422.00	677.00	-
160.00	170.00	259.00	514.00	-	340.00	429.00	684.00	-
169.00	181.00	270.00	525.00	-	351.00	440.00	695.00	-
166.00	173.00	262.00	517.00	-	343.00	432.00	687.00	-
180.00	212.00	517.00 T	900.00 T	-	-	-	-	-
194.00	231.00	536.00 T	919.00 T	-	-	-	-	-
177.00	187.00	276.00	531.00	-	-	-	-	-
211.00	250.00	555.00 T	938.00 T	-	-	-	-	-
194.00	235.00	540.00 T	923.00 T	-	-	-	-	-

T = type tandem

[1] NRA - chain feed motor 24 V, hub 400 mm

[2] NRA - rack and pinion drive 24 V, hub 500 mm

For further information and additional delivery conditions see page 66

Fall-through protection grating

alwitra

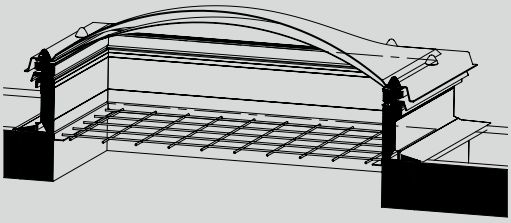
Fall-through protection grating for alwitra rooflights and upstands
Certified according GS-BAU 18

Galvanised fall-through protection grating, coloured white (~ RAL 9016)

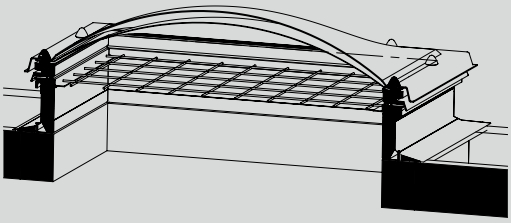
Installation methods:

- In the roof opening (on the substructrure under the upstand)
  order size = roof opening size (nominal size)
- In the upstand (from top in the upstand opening,
  directly under the rooflight respectively under the vent frame)
  order size = daylight size
- In the vent frame (from top in the vent frame, directly under the rooflight)
  order size = daylight size

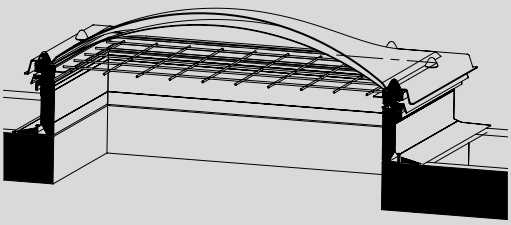
Order size Width x Length [cm]	€/piece
40 x 40	251.00
60 x 60	323.00
70 x 70	357.00
80 x 80	374.00
90 x 90	383.00
100 x 100	417.00
120 x 120	434.00
130 x 130	447.00
150 x 150	519.00
40 x 70	293.00
60 x 90	361.00
70 x 100	374.00
80 x 130	404.00
80 x 180	437.00
90 x 120	417.00
100 x 150	447.00
100 x 200	523.00
100 x 220	553.00
120 x 240	672.00



Installation in the roof opening



Installation in the upstand

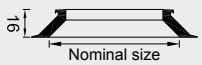
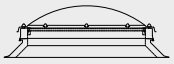
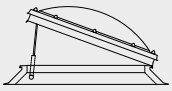
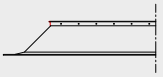
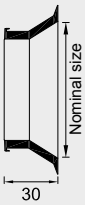


Installation in the vent frame

Further sizes on request.

For further information and additional delivery conditions see page 66

alwitra

alwitra DayLuxe window				
				optional
		 U value: ‹ 1,0 [W/m²K]	 U value: ‹ 1,0 [W/m²K]	
	Nominal size (order size) = roof opening size	**Upstand + alwitra DayLuxe window + 1S rigid €/Stück**	**Upstand + alwitra DayLuxe window + 1S ventilated [1] €/Stück**	**Factory-fitted EVALON®/EVALASTIC® flahing collar €/Stück**
Upstand 1620 Height 16 cm U value: 0,92 [W/m²K] Nominal size = roof opening size **Light opening size = roof opening size -20 cm**	**60 / 90**	**694.00**	-	152.00
	80 / 80	**750.00**	**1,349.00**	155.00
	80 / 110	**877.00**	**1,476.00**	164.00
	90 / 90	**837.00**	**1,435.00**	160.00
	100 / 100	**920.00**	**1,519.00**	166.00
	100 / 200	**1,374.00**	**2,273.00 T**	194.00
	120 / 120	**1,084.00**	**1,683.00**	177.00
	120 / 170	**1,374.00**	**2,274.00 T**	192.00
	140 / 140	**1,294.00**	**2,212.00 T**	189.00
	150 / 150	**1,405.00**	**2,323.00 T**	194.00
	160 / 160	**1,566.00**	**2,465.00 T**	200.00
 **Upstand 3020** Height 30 cm U value: 0,92 [W/m²K] Nominal size = **Light opening size = roof opening size - 20 cm**	**60 / 90**	**835.00**	-	152.00
	80 / 80	**891.00**	**1,490.00**	155.00
	80 / 110	**1,014.00**	**1,613.00**	164.00
	90 / 90	**969.00**	**1,567.00**	160.00
	100 / 100	**1,056.00**	**1,655.00**	166.00
	100 / 200	**1,539.00**	**2,438.00 T**	194.00
	120 / 120	**1,241.00**	**1,840.00**	177.00
	120 / 170	**1,530.00**	**2,430.00 T**	192.00
	140 / 140	**1,455.00**	**2,373.00 T**	189.00
	150 / 150	**1,570.00**	**2,488.00 T**	194.00
	160 / 160	**1,726.00**	**2,625.00 T**	200.00
Upstand 1600 Height 16 cm U value: 1,0 [W/m²K] Nominal size = roof opening size **Light opening size = roof opening size**	**60 / 60**	**723.00**	**1,322.00**	144.00
	60 / 90	**846.00**	**1,445.00**	152.00
	80 / 80	**886.00**	**1,485.00**	155.00
	80 / 180	**1,327.00**	**2,226.00 T**	183.00
	90 / 90	**971.00**	**1,569.00**	160.00
	100 / 100	**1,046.00**	**1,645.00**	166.00
	100 / 150	**1,327.00**	**2,227.00 T**	180.00
	120 / 120	**1,251.00**	**2,169.00 T**	177.00
	130 / 130	**1,358.00**	**2,276.00 T**	183.00
	140 / 140	**1,515.00**	**2,414.00 T**	189.00

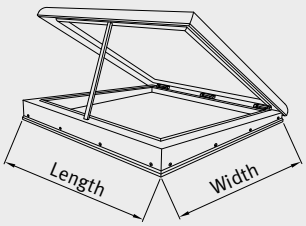
Bold = stock sizes

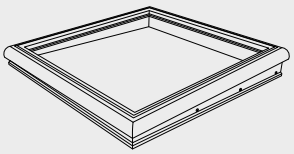
[1] Including remote control

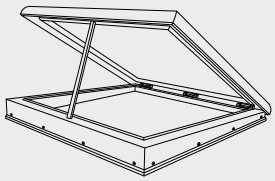
T = type tandem

For further information and additional delivery conditions see page 66

Brakel® Greenlite and Brakel® Greenlite triple







	Daylight size	Rigid version [1]	Releasable version [1,2]
	Width x length [mm]	**€/piece**	**€/piece**
Standard sizes Brakel® Greenlite U value ‹ 1.1 [W/m²K]	600 x 600	1,513.00	2,311.00
	700 x 700	1,598.00	2,387.00
	800 x 800	1,674.00	2,435.00
	900 x 900	1,910.00	2,670.00
	1000 x 1000	2,065.00	2,825.00
	1200 x 1200	2,232.00	2,990.00
	1300 x 1300	2,904.00	3,755.00
Standard sizes Brakel® Greenlite triple U value ‹ 0.55 [W/m²K]	600 x 600	1,928.00	2,788.00
	700 x 700	2,074.00	2,837.00
	800 x 800	2,194.00	2,929.00
	900 x 900	2,406.00	3,141.00
	1000 x 1000	2,638.00	3,651.00
	1200 x 1200	3,116.00	4,185.00
	1300 x 1300	3,739.00	5,008.00

Special sizes on request
Brakel® Greenlite and Brakel® Greenlite triple (rigid and releasable version) is available in every width of 600 – 1,300 mm and in every length of 600 – 2,400 mm.
The possible combinations are noted in the chart below.

[1] The surcharge for a dull white opaque inner panel is 51.00 € for every dimension.
[2] Incl. remore control

Available sizes

Length in mm

Width in mm	600	≤ 700	≤ 800	≤ 900	≤ 1000	≤ 1100	≤ 1200	≤ 1300	≤ 1400	≤ 1500	≤ 1600	≤ 1700	≤ 1800	≤ 1900	≤ 2000	≤ 2100	≤ 2200	≤ 2300	≤ 2400
600																			
≤ 700																			
≤ 800																			
≤ 900																			
≤ 1000																			
≤ 1100																			X
≤ 1200																	X	X	X
≤ 1300															X	X	X	X	X

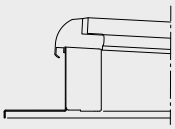
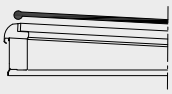
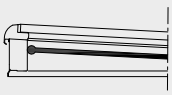
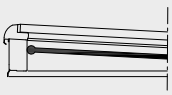
available X not available X available only as Greenlite triple

For further information and additional delivery conditions see page 66

Accessories for Brakel® Greenlite

alwitra

Accessories for Brakel® Greenlite and Brakel® Greenlite triple

					
Flange adapter Width 60 - 200 mm according to customer specification	**Internal insect protection**	**Sun protection glazing HR++**	**External sun protection electrical** [2, 3]	**Internal sun protection manual** [3]	**Internal sun protection electrical** [2, 3]
€/piece	**€/piece**	**€/piece**	**€/piece**	**€/piece**	**€/piece**
137.00	240.00	89.00	1,397.00	381.00	1,380.00
143.00	246.00	118.00	1,407.00	386.00	1,385.00
152.00	253.00	150.00	1,416.00	419.00	1,418.00
159.00	258.00	189.00	1,426.00	469.00	1,468.00
165.00	265.00	230.00	1,436.00	525.00	1,524.00
181.00	332.00	324.00	1,492.00	651.00	1,650.00
187.00	370.00	378.00	1,547.00	719.00	1,718.00
137.00	240.00	89.00	1,397.00	381.00	1,380.00
143.00	246.00	118.00	1,407.00	386.00	1,385.00
152.00	253.00	150.00	1,416.00	419.00	1,418.00
159.00	258.00	189.00	1,426.00	469.00	1,468.00
165.00	265.00	230.00	1,436.00	525.00	1,524.00
181.00	332.00	324.00	1,492.00	651.00	1,650.00
187.00	370.00	378.00	1,547.00	719.00	1,718.00

Special sizes on request
Brakel® Greenlite and Brakel® Greenlite triple (rigid and releasable version) is available in every width of 600 – 1,300 mm and in every length of 600 – 2,400 mm.
The possible combinations are noted in the chart below.

[1] The surcharge for a dull white opaque inner panel is 51.00 € for every dimension.
[2] Incl. remote control

Available sizes (sun protection) [3]

Width in mm \ Length in mm	600	≤ 700	≤ 800	≤ 900	≤ 1000	≤ 1100	≤ 1200	≤ 1300	≤ 1400	≤ 1500	≤ 1600	≤ 1700	≤ 1800	≤ 1900	≤ 2000	≤ 2100	≤ 2200	≤ 2300	≤ 2400
600																X	X	X	X
≤ 700																X	X	X	X
≤ 800																X	X	X	X
≤ 900																X	X	X	X
≤ 1000																X	X	X	X
≤ 1100																X	X	X	X
≤ 1200																X	X	X	X
≤ 1300															X	X	X	X	X

available X **not available**

alwitra

Accessories daylight systems
prices without rooflights and upstands

Accessories

switch
for motor opener 230 V, with reversing lock

concealed	**62.00 €/piece**
surfaced	**85.00 €/piece**

Remote control
for motor opener 230 V
incl. one-channel-radio transmitter
and radio receiver **252.00 €/piece**

Key switch button
with profile half cylinder
Function: open/closed/stop

concealed	**139.00 €/piece**
surfaced	**162.00 €/piece**

crank handle
made of aluminium
Length: 1.50 m **41.00 €/piece**

telescope crank handle
1.75 - 3.00 m adjustable **62.00 €/piece**

Motor opener 230 V Solo
chain feed motor 230 V, 0,32 A
hub adjustable from 100 to 400 mm **344.00 €/piece**

Der Einbau ist nur mit einem
Lüfter-Rahmen möglich.

Motor opener 230 V Tandem
2 chain feed motors 230 V, each 0,32 A
hub adjustable from 100 to 400 mm **688.00 €/piece**

The installation is only possible
with a vent frame.

Spindle opener Solo
1 spindle opener,
hub infinitely up to 300 mm **89.00 €/piece**

The installation is only possible
with a vent frame.

Spindle opener Tandem
2 spindle openers with coupling bar,
hub infinitely up to 300 mm **305.00 €/piece**

The installation is only possible
with a vent frame.

Roof hatch manual
for alwitra rooflights
with lockable opener,
max. daylight size 100 x 100 cm
or 90 x 120 cm **170.00 €/piece**

The installation is only possible
with a vent frame.

Combinable with a spindle
opener or motor opener.

Wind guard and rain guard systems

Rain guard type 230
for supervising of
motor opener 230 V,
incl. integrated evaluation circuit
and installation console **313.00 €/piece**

Wind guard and rain guard WRS
incl. evaluation unit for motor
opener230 V consisting of:
wind sensor / rain sensor,
mast bracket / wall bracket,
evaluation unit
Protrusion: approx. 510 mm,
Height: approx. 500 mm **677.00 €/piece**

Mast bracket / wall bracket
for rain guard type 230
Incl. clamp ring
Protrusion: approx. 510 mm,
Height: approx. 500 mm **113.00 €/piece**

Stand bracket
for the installation of the
rain guard type 230 or for the
conversion of the wind and
rain guard WRS
Standing surface:
Diameter: 1330 mm,
Height: 1775 mm **269.00 €/piece**

Accessories alwitra DayLuxe window

Substitute remote control
alwitra DayLuxe window
incl. one-channel-radio transmitter,
table bracket or wall bracket **89.00 €/piece**

Group remote control
alwitra DayLuxe window
up to 6 groups / roof windows
incl. wall bracket **139.00 €/piece**

Radio rain guard
alwitra DayLuxe window
Connection to 230 V,
invl. radio-based connection to
alwitra DayLuxe window
roof window **409.00 €/piece**

Accessories Brakel® Greenlite

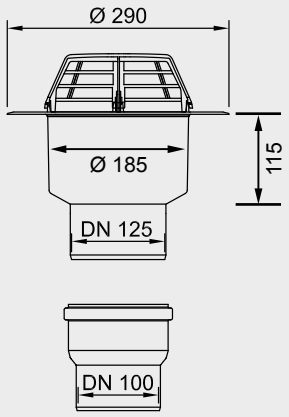
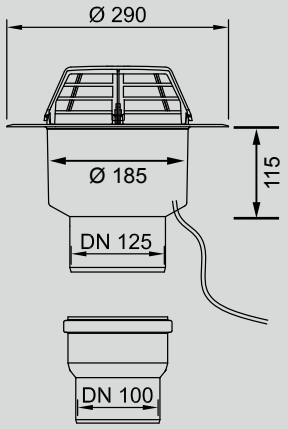
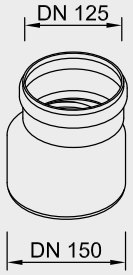
Rain guard Brakel® Greenlite
for automatical closing of the
roof windows Brakel® Greenlite and
Brakel® Greenlite triple,
Connection to 230 V,
incl. installation bracket,
control relay and junction box **532.00 €/piece**

For further information and additional delivery conditions see page 66

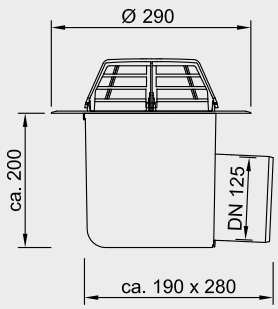
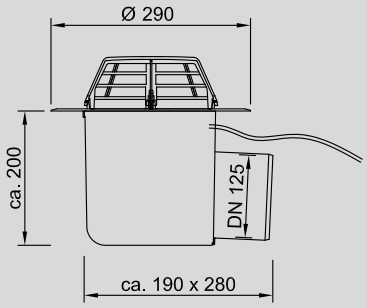
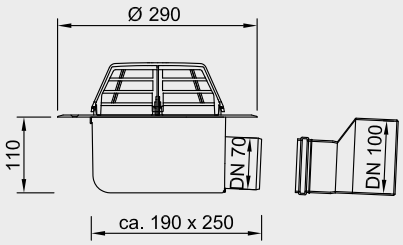
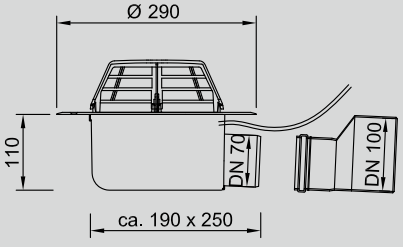
alwitra

Natural smoke vent system type 24, opening device with accessories (prices for rooflights and upstands see pages 42/43)	
NRA Type 24 preventing fire protection for stair rooms (LBO)	
NRA control unit type 24 in AP sheet steel housing, with emergency-power supply 24 V DC For the usage of maximum 10 release buttons and 10 smoke sensors. • **Control unit for surfaced installation** 5 A incl. 2 accumulators 12 V, each with 2,3 Ah Dimensions (W x H x D): 225 x 285 x 122 mm	**795.00 €/piece**
• **Control unit for concealed installation** 5 A incl. 2 accumulators 12 V, each with 2,3 Ah Dimensions (W x H x D): 254 x 314 x 96/122 mm	**849.00 €/piece**
• **Control unit for surfaced installation** 10 A inkc. 2 accumulators 12 V, each with 7 Ah Dimensions (W x H x D): 400 x 300 x 150 mm	**995.00 €/piece**
There is a minimum of 2 release buttons NRA type 24 necessary for operating.	
Release button for NRA control unit type 24 AP housing with release display and control display Colours: grey, red, yellow, orange, blue	**112.00 €/piece**
Ventilation switch for NRA control unit type 24 Without reversing lock Function: open / closed / stop	**51.00 €/piece (concealed)** **79.00 €/piece (surfaced)**
Key button for NRA control unit type 24 with profile half cylinder Function: open / closed / stop	**139.00 €/piece (concealed)** **162.00 €/piece (surfaced)**
Smoke sensor for NRA control unit type 24 with socket and release display	**136.00 €/piece**
Wind guard / rain guard for NRA control unit type 24 consisting of: Wind sensor / rain sensor 24 V, bracket for mast or wall installation, clamp ring Protrusion: approx. 510 mm; height: approx. 500 mm	**291.00 €/piece**
Stand bracket for the conversion of the wind guard / rain guard from mast or wall installation to a standing system Standing surface: diameter: 1330 mm; height: 1775 mm	**269.00 €/piece**
Motor opener NRA type 24 for AK 1620 und AK 3020 The motor openers are factory-fitted installed in the rooflights (see page 41). The installation is only possible with a vent frame.	
Motor opener NRA Solo up to daylight size 90/90 Chain feed motor, hub: 400 mm; 24 V DC; 1,35 A	**404.00 €/piece**
Motor opener NRA Solo starting from daylight size 100/100 Rack and pinion drive, hub: 500 mm; 24 V DC; 0,8 A; 550 N	**404.00 €/piece**
Motor opener NRA Tandem 2 rack and pinion drives, hub: 500 mm; 24 V DC; 1,6 A; 1.100 N	**808.00 €/piece**

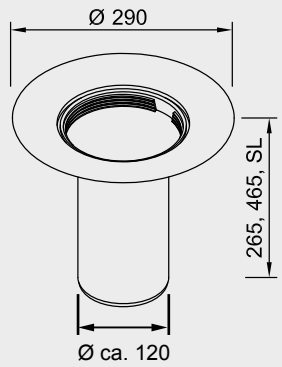
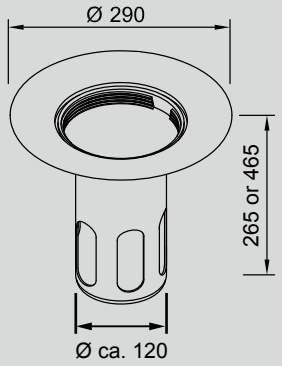
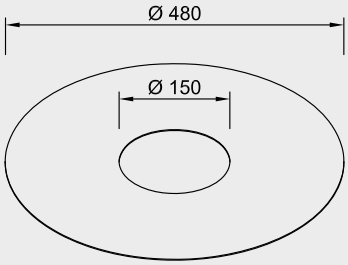
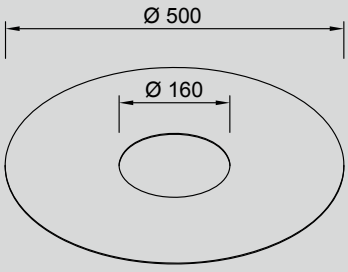
For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
Rainwater outlet S 125/110, vertical, DN 125 and DN 100 thermally insulated alwitra rainwater outlet vertical, DN 125 (OD 125), incl. reducer to DN 100 (OD 110), screw ring, leaf guard and gravel stop	DN 125 and DN 100	**57.75**	
Rainwater outlet SH 125/110, vertical, for 125 and DN 100, heatable, 230V AC thermally insulated, heatable rainwater outlet vertical, connection to 230 V AC, DN 125 (OD 125), incl. reducer to DN 100 (OD 110), screw ring, leaf guard and gravel stop. Connection with a thermostat (see accessories)	DN 125 and DN 100	**115.00**	
Adapter 125/160, eccentric Adapter for connecting the rainwater outlets S 125/110 and SH 125/110 to pipes DN 150 (OD 160)	DN 125 to DN 150	**16.20**	
Reducer 125/75, eccentric Reducer for connecting the rainwater outlets S 125/110 and SH 125/110 to pipes DN 70 (OD 75)	DN 125 to DN 70	**6.85**	

For further information and additional delivery conditions see page 66

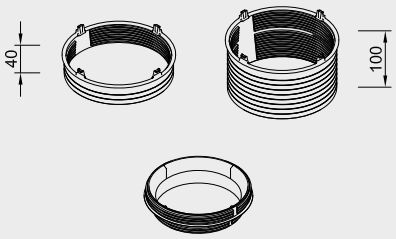
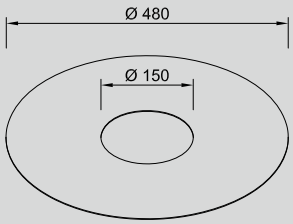
Product	Dimension	Price €/piece	
Rainwater outlet W 125, horizontal, DN 125 thermally insulated alwitra rainwater outlet with horizontal outlet, DN 125 (OD 125), incl. screw ring, leaf guard and gravel stop	DN 125	**74.50**	
Rainwater outlet WH 125, horizontal, heatable, 230 V AC thermally insulated, heatable rainwater outlet with horizontal outlet, connection to 230 V AC, DN 125 (OD 125), incl. screw ring, leaf guard and gravel stop. Connection with a thermostat (see accessories).	DN 125	**125.00**	
Rainwater outlet W 75/110, horizontal, DN 70 and DN 100 thermally insulated alwitra rainwater outlet with small overall height (110 mm) and horizontal outlet, DN 70 (OD 75), incl. adapter to DN 100 (OD 110), screw ring, leaf guard and gravel stop.	DN 70 and DN 125	**74.50**	
Rainwater outlet WH 75/110, horizontal, DN 70 and DN 100, heatable, 230V AC thermally insulated, heatable rainwater outlet with small overall height (110 mm) and horizontal outlet, connection to 230 V AC, DN 70 (OD 75), incl. adapter to DN 100 (OD 110), screw ring, leaf guard and gravel stop. Connection with a thermostat (see accessories).	DN 70 and DN 100	**125.00**	

For further information and additional delivery conditions see page 66

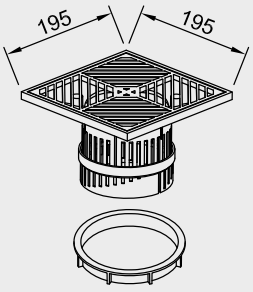
Product	Dimension	Price €/piece	
Extension elements 200, 400 oder SL fitting all alwitra rainwater outlets, for bridging thermal insulation layers of warm roofs, with EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey) connecting flange			
• **200** for thermal insulation thicknesses from 50 mm to 200 mm	50 - 200 mm	**49.50**	
• **400** for thermal insulation thicknesses from 50 mm to 400 mm	50 - 400 mm	**69.50**	
• **SL** for thermal insulation thicknesses › 400 mm as individual length according to customer specification	› 400 mm	**89.50**	
Extension elements UKD 200, UKD 400 fitting all alwitra rainwater outlets, for bridging thermal insulation layers of inverted roofs, for connecting the trickle protection			
• **UKD 200** for thermal insulation thicknesses at inverted roofs from 50 mm to 200 mm	50 - 200 mm	**54.50**	
• **UKD 400** thermal insulation thicknesses at inverted roofs from 50 mm to 400 mm	50 - 400 mm	**74.50**	
Connecting flange OD 480 mm, thickness 1.5 mm for flashing against the roof waterproofing of EVALON® and EVALASTIC®, fitting all alwitra rainwater outlets and extension elements, EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey)	OD 480 mm	**6.90**	
Connecting flange bitumen OD 500 mm, thickness approx. 5 mm for flashing against vapour barriers made of bitumen, fitting all alwitra rainwater outlets	OD 500 mm	**6.90**	

For further information and additional delivery conditions see page 66

Emergency outlets

Product	Dimension	Price €/piece	
Emergency outlet sockets 40, 100, SL for easy conversion of all alwitra rainwater outlets and extension elements (200, 400, SL) into emergency oulets with a specified ponding height			
• **40** ponding height 20 - 40 mm, adjustable by cutting	20 - 40 mm	**29.50**	
• **100** ponding height 20 - 100 mm, adjustable by cutting	20 - 100 mm	**34.50**	
• **SL** special length: prefabricated ponding height (20 - 95 mm in steps of 5 mm)	20 - 95 mm	**39.50**	
Connecting flange Ø 480 mm, thickness 1.5 mm for flashing against the roof waterproofing of EVALON® and EVALASTIC®, fitting all alwitra rainwater outlets and extension elements, EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey)	OD 480 mm	**6.90**	

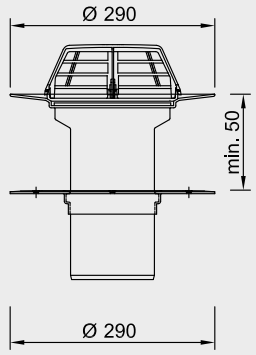
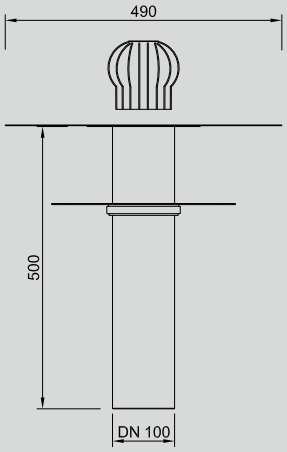
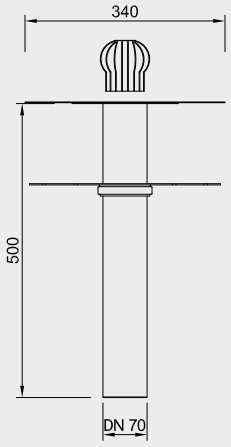
Terrace grate

Product	Dimension	Price €/piece	
Terrace grate made of aluminium, with lift ring and centring spacer ring, adjustable from 65 - 90 mm in steps of 3 mm, for installation heights › 90 mm, additional lift rings are required, dimension 195 x 195 mm (for 200 x 200 mm grid)	195 x 195 mm	**137.00**	
Lift ring for terrace grate made of aluminium, additional height per optional lift ring 36 mm		**37.50**	

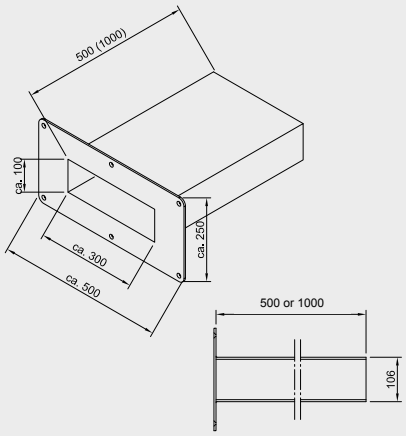
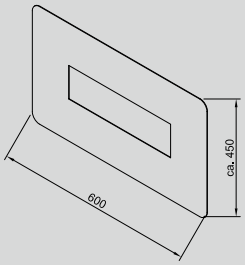
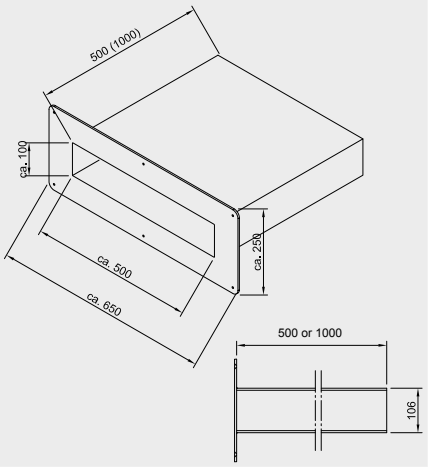
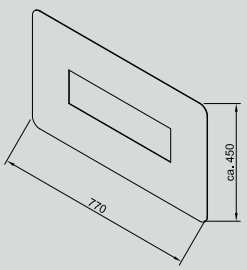
For further information and additional delivery conditions see page 66

Refurbishment rainwater outlets

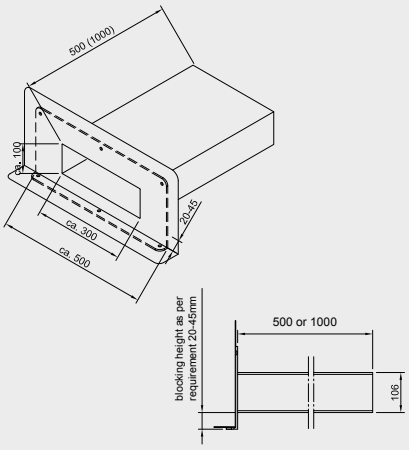
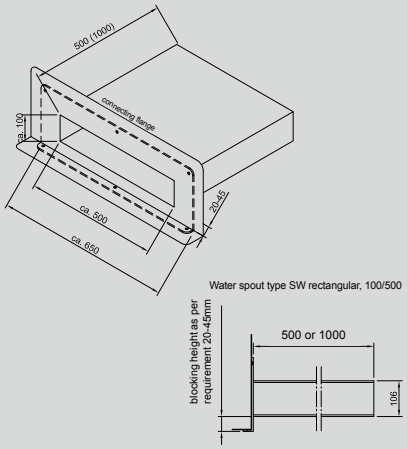
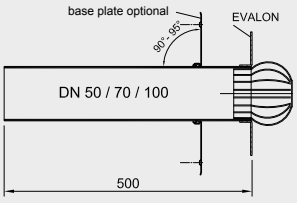
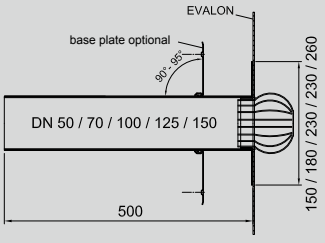
alwitra

Product	Dimension	Price €/piece	
Refurbishment rainwater outlets 125 for existing rainwater outlets DN 125 (OD 125) and DN 150 (OD 160), refurbishment ring made of PP with Rollring and extension element 200, for thermal insulation thicknesses 50 - 200 mm, incl. connecting flange made of EVALON® or EVALASTIC®, leaf guard and gravel stop for EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey) roof waterproofings	DN 125	**69.40**	
Refurbishment rainwater outlets 110 for existing rainwater outlets DN 100 (OD 110), refurbishment ring made of aluminium DN 100 with lip seal, refurbishment element DN 100 (OD 110) made of PVC-U with integrated connecting flange made of EVALON® (490 x 490 mm), for thermal insulation thicknesses 0 - 300 mm, with wired domed leaf guard only for EVALON® (white, light grey, slate grey) roof waterproofings!	DN 100	**69.40**	
Refurbishment rainwater outlets 75 for existing rainwater outlets DN 70 (OD 75) and DN 90 (OD 90), refurbishment ring made of aluminium DN 70 with lip seal, refurbishment element DN 70 (OD 75) made of PVC-U with integrated connecting flange made of EVALON® (340 x 340 mm), for thermal insulation thicknesses 0 - 300 mm, with wired domed leaf guard only for EVALON® (white, light grey, slate grey) roof waterproofings!	DN 70	**58.40**	

For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
Water spout type SF rectangular, 100/300, made of PVC-U with a welding flange for EVALON® roof waterproofings • Pipe length 500 mm • Pipe length up to 1000 mm on order	100 x 300 mm	**111.10** **140.35**	
Connecting flange for water spout SF rectancular, 100/300 Connecting flange made of EVALON® (white, light grey, slate grey, green, brick red)	600 x 450 mm	**8.90**	
Water spout type SF rectangular, 100/500, made of PVC-U with a welding flange for EVALON® roof waterproofings • Pipe length 500 mm • Pipe length up to 1000 mm on order	100 x 500 mm	**145.25** **186.95**	
Connecting flange for water spout SF rectangular, 100/500 Connecting flange made of EVALON® (white, light grey, slate grey, green, brick red)	770 x 450 mm	**8.90**	

For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
Water spout type SW rectangular, 100/300, made of PVC-U with EVALON® connecting flange (white, light grey, slate grey, green, brick red) and angled base plate, ponding height 25 - 50 mm (in steps of 5 mm) according to customer specification • Pipe length 500 mm • Pipe length up to 1000 mm on order	100 x 300 mm	**141.90** **171.50**	
Water spout type SW rectangular, 100/500, made of PVC-U with EVALON® connecting flange (white, light grey, slate grey, green, brick red) and angled base plate, ponding height 25 - 50 mm (in steps of 5 mm) according to customer specification • Pipe length 500 mm • Pipe length up to 1000 mm on order	100 x 500 mm	**177.55** **219.25**	
Water spout type S made of PVC-U with EVALON® connecting flange (white, light grey, slate grey, green, brick red), incl. wired domed leaf guard • Pipe length 500 mm optional base plate see page 56	DN 50 DN 70 DN 100	**21.50** **24.45** **29.00**	
Water spout type SF made of PVC-U with flange and EVALON® connecting flange (white, light grey, slate grey), incl. wired domed leaf guard • Pipe length 500 mm optional base plate see page 56	DN 50 DN 70 DN 100 DN 125 DN 150	**25.65** **28.25** **36.05** **41.15** **51.85**	

For further information and additional delivery conditions see page 66

Water spouts (emergency outlets)

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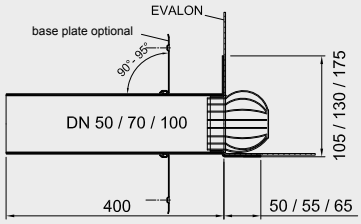
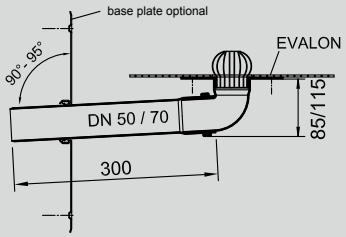
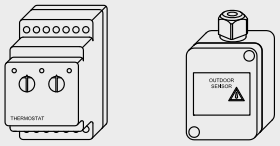
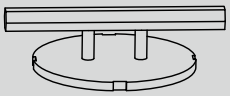
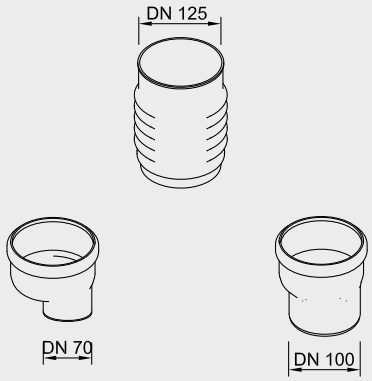
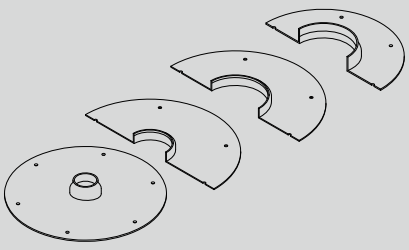
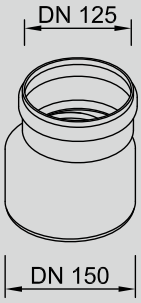
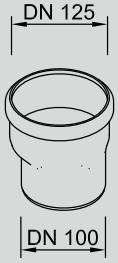
Product	Dimension	Price €/piece	
Water spout type SW made of PVC-U with angled flange and EVALON® connecting flange (white, light grey, slate grey), incl. wired domed leaf guard • Pipe length 400 mm optional base plate see page 56	DN 50 DN 70 DN 100	**25.90** **28.15** **36.40**	
Water spout type VF with vertical entry, made of PVC-U with flange and EVALON® connecting flange (white, light grey, slate grey), incl. wired domed leaf guard • Pipe length 300 mm optional base plate see page 56	DN 50 DN 70	**35.90** **43.70**	

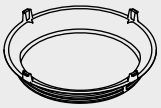
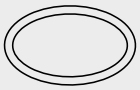
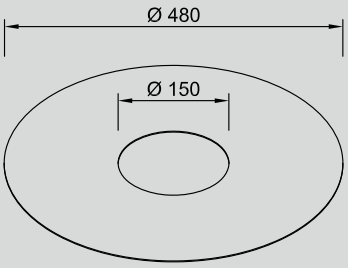
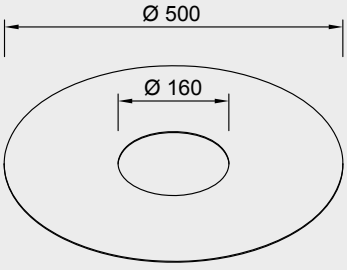
For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
Thermostat, with external outdoor temperature sensor, 230 V AC for energy-saving control of all heatable alwitra rainwater outlets, switching on and switching off threshold can be controlled separately, to control 1 - 50 rainwater outlets at the same time, DIN rail mounting		**140.70**	
Screwing aid for secure installation of the screw ring of all alwitra rainwater outlets, extension elements and emergency outlet sockets		**38.05**	
Bellows with stainless steel bracket and connecting piece made of PE-HD for connecting alwitra rainwater outlets to the vertical entry DN DN 125 (OD 125) to downpipes DN 125 (OD 125) / DN 100 (OD 110) / DN 70 (OD 75)	DN 125 to DN 125 or DN 125 to DN 100 or DN 125 to DN 70	**34.55**	
Base plate/refurbishment plate made of aluminium, with lip ring	DN 50 DN 70 DN 100 DN 125	**31.45** **34.85** **36.80** **38.60**	

For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
Reducer 125/75, eccentric Reducer from DN 125 (OD 125) to DN 70 (OD 75)	DN 125 to DN 70	**6.85**	
Adapter 125/160, eccentric Expansion from DN 125 (OD 125) to DN 150 (OD 160)	DN 125 to DN 160	**16.20**	
Adapter 75/110, eccentric Expansion from DN 70 (OD 75) to DN 100 (OD 110), as a spare part	DN 70 to DN 100	**6.85**	
Reducer 125/110, eccentric Reducer from DN 125 (OD 125) to DN 100 (OD 110), as a spare part	DN 125 to DN 100	**6.85**	
Leaf guard and gravel stop fitting all alwitra rainwater outlets, extension elements and emergency outlet sockets, as a spare part		**4.85**	

For further information and additional delivery conditions see page 66

Product	Dimension	Price €/piece	
alwitra screw ring fitting all alwitra rainwater outlets and expansion elements, as a spare part		**3.85**	
Gasket oval for flashing against the waterproofing without back flow underneath the screw rings or emergency outlet socket of all alwitra rainwater outlets, extension elements and emergency outlet sockets, as a spare part		**2.20**	
Rollring fitting all alwitra rainwater outlets, for flashing to the extension elements, as a spare part		**2.15**	
Connecting flange Ø 480 mm, thickness 1.5 mm for flashing to the EVALON® or EVALASTIC® membranes, fitting all alwitra rainwater outlets and expansion elements, EVALON® (light grey, white, slate grey, green, brick red) or EVALASTIC® (light grey)	OD 480 mm	**6.90**	
Connecting flange bitumen OD 500 mm, thickness approx. 5 mm for flashing against vapour barriers made of bitumen, fitting all alwitra rainwater outlets	OD 500 mm	**6,90**	

For further information and additional delivery conditions see page 66

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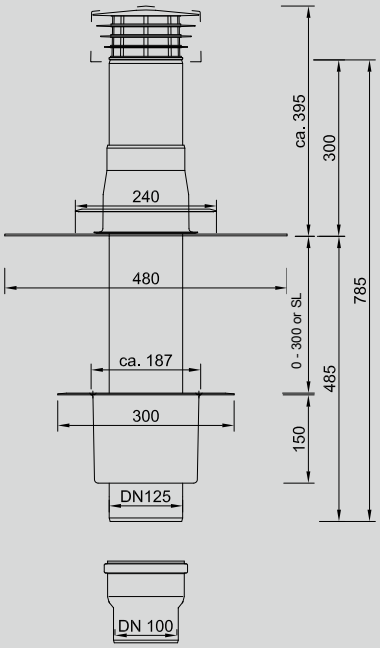
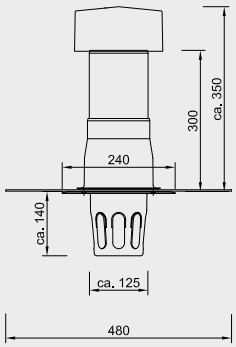
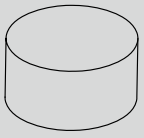
Product	Dimension	Price €/piece	
Vent stack 300 for flashing to DN 125 (OD 125) incl. reducer to DN 100 (OD 110), thermal insulation thicknesses from 0 - 300 mm, with integrated connecting flange made of EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey), removable vent cowl	DN 125 to DN 100	**72.50**	
Vent stack SL for flashing to DN 125 (OD 125) incl. reducer to DN 100 (OD 110), for thermal insulation thicknesses › 300 mm as special length according to customer specification, with integrated connecting flange made of EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey), removable vent cowl	DN 125 to DN 100	**98.50**	
Cold roof vent 125 Vent cross section ~ 110 cm² with condensate drip pan and integrated connecting flange made of EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey), removable vent cowl and weather cap	DN 125	**67.50**	
Weather cap for the rain-proof upper finish of the vent stack/cold roof vent		**4.95**	
Vent cowl for vent stack and cold roof vent Vent cowl made of PP, as a spare part		**4.95**	

For further information and additional delivery conditions see page 66

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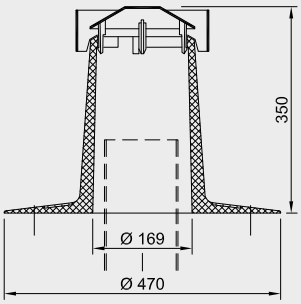
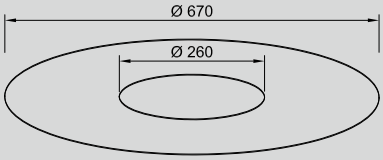
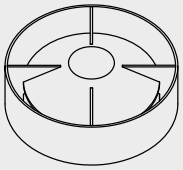
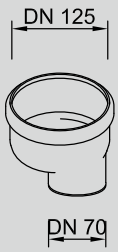
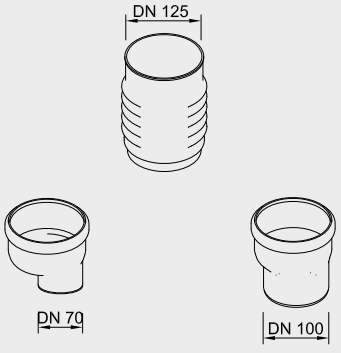
Product	Dimension	Price €/piece	
Refurbishment vent up to DN 150 (OD 160) thermally insulated, made of PUR integral foam with welding flange made of EVALON®/EVALASTIC® and removable vent cowl made of PE, without connecting flange	up to DN 150	**76.50**	
Connecting flange for refurbishment vent Ø 670 mm made of EVALON® (white, light grey, slate grey, green, brick red) or EVALASTIC® (light grey)	OD 670 mm	**8.90**	
Vent cowl for refurbishment vent Vent cowl made of PE for refurbishment vent, as a spare part		**4.95**	
Reducer 125/75, eccentric Reducer from DN 125 (OD 125) to DN 70 (OD 75)	DN 125 to DN 70	**6.85**	
Bellows with stainless steel bracket and flashing piece made of PE-HD, for the flexible flashing of the flat roof vent DN 125 (OD 125) to downpipes DN 125 (OD 125) / DN 100 (OD 110) / DN 70 (OD 75)	DN 125 to DN 125 or DN 125 to DN 100 or DN 125 to DN 70	**34.55**	

OD = Outer diameter (mm) EVALON colour: if available

For further information and additional delivery conditions see page 66

Paving slab support type PA 20 plus

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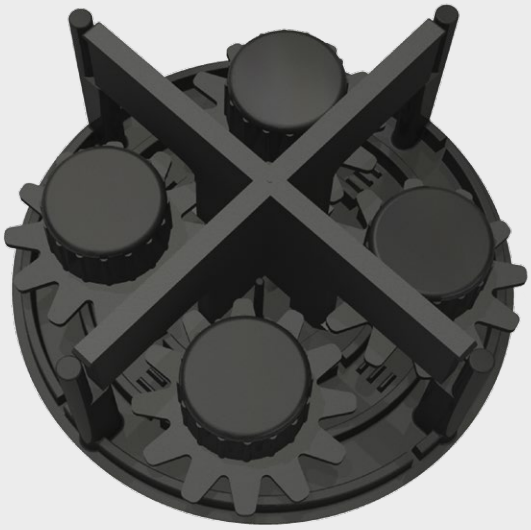
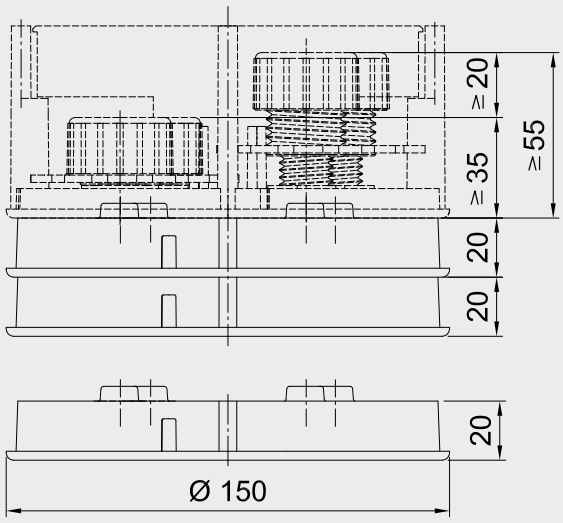
Paving support type PA 20 plus with gap cross	
Patent-registered, back-tracking lock and height adjustment, made of weather and temperature resistant polyamide	
Packing unit (PU):	1 carton = 24 pieces 1 pallet = 1,440 pieces
Requirement[1]:	approx. 6.3 pieces/m² paving size 40 / 40 / 4 cm approx. 4 pieces/m² paving size 50 / 50 / 4 (5) cm



Paving support type PA 20 plus with gap cross



Paving support type PA 20 plus with gap cross

Price: 3.05 €/piece

Technical data	
Base area	175 cm²
Installation[2]	on protection layer
Height adjustment	from 35 - 55 mm (20 mm)
Load capacity	4 x 2kN/paving support
Drainage gaps (gap width)	6 mm
Temperature resistance	from -30 °C to +100 °C
Material	plastics PP-H GF30, black

[1] Additional requirements by using of complete paving supports and pared paving at the paving edges has to be noted.

[2] With safety device of the paving against lateral movement at the terrace edge.

For further information and additional delivery conditions see page 66

Paving slab support type PA 20 plus

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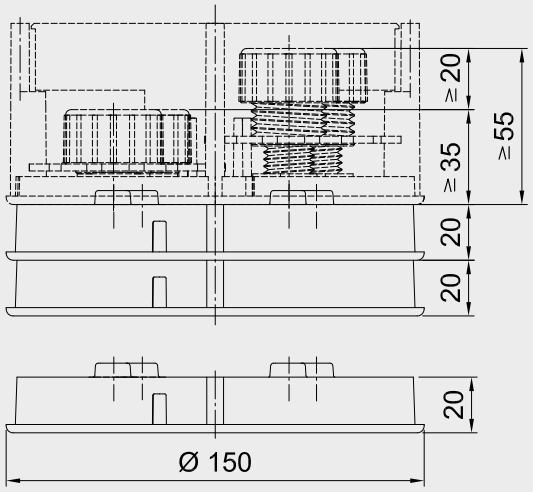
Base plate 20 mm for paving supports, type PA 20 plus with gap cross	
stackable of weather and temperature resistant polyamide	
Packing unit (PU):	1 carton = 48 pieces 1 pallet = 2,880 pieces

Assessment of demand see table on next page.

Shim 20 mm for paving slab support



Paving support PA 20 plus	Height
without	35 - 55 mm
1	55 - 75 mm
2	75 - 95 mm
3	95 - 115 mm
4	115 - 135 mm
5	135 - 155 mm
6	155 - 175 mm
7	175 - 195 mm

Shim 20 mm for paving slab support

Price: 1.00 €/piece

Technical data	
Base area	175 cm²
Installation [1; 2]	on protection layer
Height adjustment	from 20 mm
Load capacity	8 kN / base plate
Temperature resistance	from -30 °C to +100 °C
Material	plastics PP-H GF30, black

[1] With safety device of the pavings against lateral movement at the terrace edge.
[2] Max. 7 base plates below one paving support.

For further information and additional delivery conditions see page 66

Calculation of the required base plates

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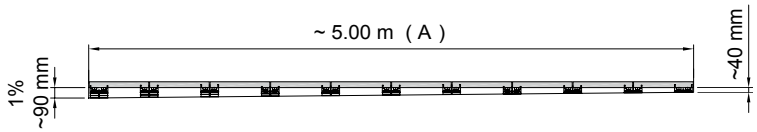
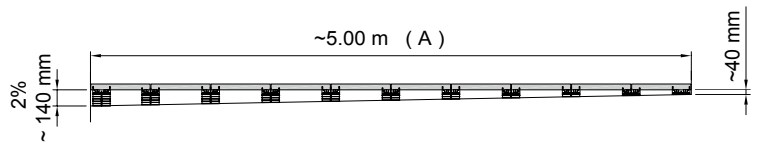
Calculation of the required base plates for PA 20 plus in case of slope differences between bottom and pavings



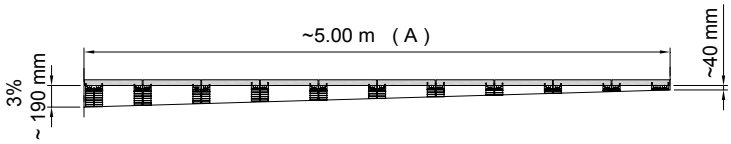
Slope difference roofing membrane - pavings 1 %

Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Base plates / lines 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 differnce / m		Quantity of base plates																



Slope difference roofing membrane - pavings 2 %

Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Base plates / 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 base plates																



Slope difference roofing membrane - pavings 3 %

Paving size 50 x 50 cm		Length B [m]																
Slope length A [m]	Base plates / 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 base plates																

For further information and additional delivery conditions see page 66

Packing units

alwitra

Packing units							
EVALON® waterproofing membrane, standard length 25 m							
	Width	**m² / roll**	**kg / roll Nominal thickness**		**Rolls / pallets ***	**Approx. kg / pallet gross**	
	m		1.2 mm	**1.5 mm**		1.2 mm	**1.5 mm**
EVALON® (unbacked)	1.05	26.25	41	**51**	15	635	**785**
	1.55	38.75	61	**76**	15	940	**1,165**
	2.00	50.00	79	**98**	15	1,215	**1,500**
EVALON® V	1.05	26.25	44	**54**	10	460	**585**
	1.55	38.75	65	**80**	10	675	**825**
	2.05	51.25	86	**106**	10	890	**1,090**
	1.09	27.25	46	**56**	10	480	**580**
	1.59	39.75	67	**82**	10	695	**845**
EVALON® VG	1.05	26.25	45	**55**	10	470	**570**
	1.55	38.75	66	**81**	10	685	**835**
	1.09	27.25	47	**57**	10	490	**590**
	1.59	39.75	68	**83**	10	705	**855**
EVALON® VSK	1.05	26.25	50	**59**	10	520	**610**
EVALON® VGSK	1.05	26.25	51	**60**	10	530	**620**

* for orders in other units, we calculate a surcharge of 20,00 € per pallet

EVALON® prefabricated parts / lead roll effect profile and accessories		**Pieces / carton**
Internal corner type W		140
External corner type W		130
Internal corner TA/TAG		200
External corner TA/TAG		200
Standing seam effect profile		50 (= 100 m) *
alwitra solvent welding agent	tin of 0.5 L tin of 3.0 L	24 12
liquid EVALON® white/light grey/slate grey	tin of 2.5 L	4

* Join connections included

For further information and additional delivery conditions see page 66

Packing units

alwitra

Packing units						
EVALASTIC® membranes, standard length 25 m						
	Width **m**	**kg / roll Nominal thickness**		**Number of rolls / pallet ***	**Tapes Width in cm**	**Rolls / pallet**
		1.2 mm	**1.5 mm**			
EVALASTIC® (unbacked)	1.05 1.55	40 59	**49** **72**	15 15		
EVALASTIC® V	1.05 1.55 1.09 1.59	43 63 45 65	**52** **77** **54** **79**	10 10 10 10	54 79	20 20

* for orders in other units, we calculate a surcharge of 20,00 € per pallet

EVALASTIC® prefabricated parts	Pieces / carton
Internal corner type W	200
External corner type W	200
Standing seam effect profile	50 (= 100 m) *

* Joint connections included

For further information and additional delivery conditions see page 66

Information and additional delivery conditions

1. Storability

Some of our products have a limited storability. Please take care of the imprints on the containers. **Aluminium profiles** have be stored **weather protected**. Especially further to prevention of irreparable corrosion damages on pressblank aluminium profiles it is necessary to store these dry and separate. Please do not keep them in the transport packaging.

2. Redemption of goods

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

3. Fastener

Delivery content is generally without fasteners.

4. Special corners / roandings

- Prices for non rectangle corners and/or of serial corners deviant side lengths on request.
- Prices for roandings on request.

5. Special lenghts and fitting pieces for aluminium profiles

For delivery

- of assembly finished pieces in lenghts, which are different to the standard lenghts (= special lenghts)
- of pieces in lengths, which are different from the standard pieces and which have to be cutted on site into the needed lengths (fitting piece)

a surcharge of 10 % of the price per m will be invoiced additionally. Increased demand of brackets and supplies, caused by fix lengths or fitting pieces, will be invoiced additionally.

6. Corner sides lenghts MAG/MAK

Up to 300 mm crown width the corner side lenghts of the profiles are 50 cm / 50 cm.

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

7. Per each colour and delivery the minimum coating value is 250.00 €.

Colour coatings are done as PUR-2-components-wetcoating in all colours of RAL or in 5 alwitra mica iron paints (light grey EGL 9006,dust grey EGL 701, grey EGL 702, dark grey EGL 703, grey brown EGL 8181-19BE). For the mentioned alwitra mica iron paints, and also the RAL colours 9006 and 9007 (one-layer as well as metallic-coating) no warranty may be given further to the coating equality.

If the RAL-colours 1003, 1004, 1006, 1007, 1012, 1016, 1017, 1018, 1021, 1023, 1033, 2000, 2004, 2010, 9006 and 9007 resp. coating based on given samples in metallic are desired, the surcharge amounts to 100 %. For pearlescent paint colours (RAL 1035, 1036, 2013, 3032, 3033, 4011, 4012, 5025, 5026, 6035, 6036, 7048, 8029, 9022 and 9023) prices will be given on request. For special lengths and fitting pieces a surcharge of 10 % of the coating price per m will be invoiced.

8. Anodic oxidation (anodizing)

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

General Terms of Delivery of alwitra GmbH & Co. KG

Effective: Februar 2014

alwitra

§ 1 VALIDITY

(1) All the deliveries, services, and offers by alwitra are provided exclusively on the basis of these General Terms of Delivery. These are part of all the contracts which alwitra will conclude with their contract partners (hereinafter also "Principals") as to any deliveries or services offered by them. These terms will 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 will not be applied, 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 will 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 purchaser towards alwitra after the conclusion of a contract require written form or electronic form in order to come into effect.
(4) Our General Terms of Delivery will only be valid for companies in the sense of § 14 sec. 1 of the German Civil Code BGB.

§ 2 OFFER AND CONTRACT CONCLUSION

(1) All the offers are provided subject to confirmation and are non-binding, unless explicitly marked as binding or containing a specific term of acceptance. Orders can be accepted by alwitra within 14 days upon reception.
(2) The legal relationships between alwitra and the Principal are exclusively defined by the conclusion of the purchase contract in written form, including these General Terms of Delivery. The contract will 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 are not legally binding. Oral agreements between the parties will be substituted by the contract in written form, unless their binding validity will explicitly result from the respective agreements.
(3) Amendments and modifications of the stipulated agreements, including these General Terms of Delivery, require written or electronic form in order to become effective. With the exception of Managing Directors or authorized signatories, alwitra's employees are not entitled to conclude any oral agreements differing therefrom. The written form is sufficiently maintained by a transmission via telefax, the electronic form by email. Apart from that, the transmission by telecommunication will 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) are only approximately significant, unless the applicability for the purpose provided by the contract will require an exact correspondence. They are not 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, are caused by legal regulations, or which represent technical improvements, as well as the exchange of components by parts of equal quality are permitted, unless affecting the applicability for the purpose provided by the contract.
(5) alwitra reserves 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 is not entitled to make these objects or their contents available to any third parties without written consent by alwitra, nor to publish them, to use them themselves or let them be used by third parties, or to copy them. Upon request by alwitra, they will return these objects completely to the former and destroy any copies which may have been made, as soon as the objects will not be required any longer for the due course of business or if negotiations do not lead to the conclusion of a contract.

§ 3 PRICES AND PAYMENT

(1) Prices are valid for the service and delivery determined within the order confirmations. Additional or special services will be invoiced separately. Prices are 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 are based on the catalogue prices by alwitra and the delivery will take place more than four months after the conclusion of the contract, the valid prices will be the catalogue prices by alwitra in effect at the time of delivery (minus a per cent or firm discount agreed upon).
(3) Invoices are payable without any deduction immediately upon their reception, unless otherwise agreed upon in written form. The invoices are payable by bank direct debit. When placing their order, the Principal will grant to alwitra a debit order. Cheques will only be accepted as payment upon their encashment. If the Principal does not perform at maturity, the due sum will 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 remain unaffected.
(4) Any offsetting against counterclaims of the Principal or the retention of payments on the grounds of such claims is only permitted insofar as the counterclaims are undisputed or determined without further legal recourse.
(5) alwitra will 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 will be discontinued in the case of litigations with the Principal before a court, extrajudicial settlement proceedings, insolvency proceedings, or delayed payment by the Principal.

§ 4 DELIVERY AND TIME OF DELIVERY

(1) At the option of alwitra, deliveries will 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 will 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 will 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 is 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 does not perform their contractual obligations towards alwitra.
(4) alwitra will 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 will be entitled to withdraw from the contract. In the case of hold-ups of temporary nature, the periods of delivery or service will be extended, or the dates of delivery or service will 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 will be entitled to withdraw from the contract by immediate written notice to alwitra.
(5) alwitra is 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
- no considerable extra effort and expenses will result therefrom for the Principal (unless alwitra will 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 does not represent a partial delivery. The delivery of one of several different objects of purchase or service included within one order of the Principal does 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 will be restricted according to § 8 of these General Terms of Delivery.
(7) f 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 will be entitled to claim the resulting damages including extra expenses (e. g., storage costs). alwitra will 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 will 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) remains unaffected; the lump-sum will however be offset against any further monetary claims. The Principal remains 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 will only be accepted free of transport charges if previously agreed upon in written form by alwitra. In this case, the Principal will bear the risk of transport until the merchandise will be transferred back to alwitra, at alwitra's option at their works in Trier or Hermeskeil. The return of packaging is also agreed upon separately.

§ 5 PLACE OF PERFORMANCE, SHIPPING, PACKAGING, TRANSFER OF RISK, ACCEPTANCE

(1) Place of performance for all obligations resulting from the contractual relationship is, at alwitra's option, their works in Trier or Hermeskeil, depending on the works from which the delivery will be provided and unless agreed upon differently. If alwitra is also obliged to make the installation, place of performance will be the place where the installation will take place.
(2) The type of shipping and the packaging are at the dutiful discretion of alwitra.
(3) The risk will be transferred to the Principal 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 will 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 will be transferred to the Principal on the day when the object of delivery will be ready for dispatch and a respective notice will have been given to the Principal by alwitra.
(4) Storage costs after the transfer of risks are to be borne by the Principal. In the case of storage by alwitra, storage costs 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 remains reserved. Storage costs are to be offset against the compensation pursuant to § 4 sec. 7.
(5) The shipping will only be insured by alwitra against theft, breakage, damage due to transport, fire, and 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 will be required, the object of purchase is considered as accepted if

- the delivery and the installation – insofar as alwitra is also obliged to take care of the installation – are concluded,
- alwitra has given notice to the Principal about such fact, adverting them to the assumed acceptance according to this § 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.

§ 6 WARRANTY, MATERIAL DEFECTS

(1) The warranty period is one year upon delivery or, insofar as acceptance is required, upon acceptance. 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 will be 5 years upon delivery pursuant to the legal regulations (§ 438 sec. 1 no. 2 of the German Civil Code BGB). Specific legal regulations with respect to claims for surrender in rem by third parties (§ 438 sec. 1 no. 1 BGB), for the case of wilful 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 (§ 479 BGB), will also remain unaffected.
(2) The delivered objects are to be thoroughly examined immediately upon delivery to the Principal or to a third party determined by the former. They will be considered as accepted unless alwitra will have received, pursuant to § 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 realisation of the defect, or at each earlier time when the defect will have become obvious to the Principal during the normal use of the object of delivery without a thorough examination. Upon alwitra's request, the faulty object of delivery must be sent back to alwitra free of transport charge. In the case of a justified notice of defects, alwitra will reimburse the costs for the cheapest type of transport; this will not hold if the costs increase because the object of delivery is located at a different place than the place of its intended use.
(3) In the case of material defects of the delivered objects, alwitra is, at their option to be selected within an appropriate period, obliged and entitled to amendment first or replacement. In the case of failure, i. e. if an amendment or replacement are impossible, unacceptable, or are refused or inappropriately delayed, the Principal is entitled to withdraw from the contract or to reduce the purchase price adequately.
(4) If a defect is caused by alwitra, the Principal may claim damages on the conditions determined in § 8.
(5) 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 will at their option assert their warranty claims against the producers and suppliers for account of the Principal, or assign such claims to the Principal. On the usual conditions and according to these Terms 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 will be stayed until the lawsuit is over.
(6) The warranty will be cancelled 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 will bear the extra costs of the defect elimination resulting from such modification.
(7) A delivery of used objects agreed upon with the Principal in the individual case will exclude any warranty for material defects.

§ 7 INTELLECTUAL PROPERTY RIGHTS

(1) Pursuant to this § 7, alwitra will guarantee that the object of delivery is free from any industrial property rights or copyrights of third parties. Each party to the contract will 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 will at their option and at their expenses modify or exchange the object of delivery in such a way that no rights of third parties will be violated any longer and the object of delivery will still fulfil the functions stipulated within the contract. Otherwise, alwitra will 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 will be entitled to withdraw from the contract or to reduce the purchase price adequately. Any possible claims on damages of the Principal are subject to the restrictions of § 8 of these General Terms of Delivery.
(3) In the case of a violation of law by products of other companies delivered by alwitra, alwitra will 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 § 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.

§ 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, is restricted pursuant to this § 8 insofar as it comes down to a fault in the respective case.
(2) alwitra will not be liable in cases of ordinary negligence of their organs, legal representatives, employees, or other vicarious agents, insofar as no essential contractual obligations are violated. Essential contractual obligations are 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 will be liable for damages on the merits according to § 8 (2), this liability will 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 had to foresee if due diligence was applied. Besides, indirect or consequential damage resulting from defects of the object of delivery will only be remedied insofar as such damage is to be expected typically if the object of delivery is used as intended.
(4) The aforementioned disclaimers and restrictions of liability will also be valid to an equal extent in favour of the organs, 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 will do so free of charge and to the exclusion of any liability.
(6) The restrictions of this § 8 will not apply to alwitra's liability on the grounds of wilful behaviour, guaranteed quality features, the violation of life, limb, or health, or the German Product Liability Law.

§ 9 RETENTION OF TITLE

(1) The retention of title agreed upon in the following serves for the securitisation 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 will remain in the ownership of alwitra until the complete payment of all the secured claims. Pursuant to this clause, the merchandise will be called merchandise subject to retention of title hereinafter.
(3) The Principal will store the merchandise subject to retention of title free of charge for alwitra.
(4) The Principal is 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). Pledges and assignments as security are not permitted.
(5) If the merchandise subject to retention of title is processed by the Principal, it is agreed upon that the processing will take place in the name and for account of alwitra as producer, and that alwitra will 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 should occur for alwitra, the Principal will already now transfer their future ownership or – at the abovementioned ratio – co-ownership of the created new object as security to alwitra. If the merchandise subject to retention of title will be combined with other objects to form a homogeneous object, or will be mixed inseparably with another object, and if one of the other objects is to be considered the main object, alwitra will 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 will already now assign to alwitra as security the claim against the purchaser resulting therefrom – 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 will accept this assignment. The same holds 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 will authorize the Principal revocably to collect the claims assigned to alwitra in their own name. alwitra may 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 garnishment, the Principal will immediately indicate the ownership of alwitra and will inform alwitra of such seizure, in order to enable alwitra to enforce their ownership rights. Insofar as the third party is unable to reimburse alwitra for the judicial or extrajudicial costs resulting therefrom, the Principal will be liable towards alwitra.
(8) At their option, alwitra will release the merchandise subject to retention of title as well as the objects or claims substituting such merchandise upon request, insofar as their value exceeds the amount of the secured claims by more than 50 %.
(9) If alwitra withdraws from the contract on the grounds of a behaviour of the Principal in violation of the contract – in particular in the case of default in payment - (case of enforcement), they are entitled to request the surrender of the merchandise subject to retention of title.

§ 10 CLOSING PROVISIONS

(1) In the case of any possible litigation in connection with the business dealings between alwitra and the Principal, at the option of alwitra the place of jurisdiction will be Trier or the place of business of the Principal. In the case of actions against alwitra, the exclusive place of jurisdiction will be Trier. Obligatory statutory regulations with respect to exclusive places of jurisdiction remain unaffected by this provision.
(2) The relations between alwitra and the Principal are exclusively subject to the law of the Federal Republic of Germany. The United Nations Convention on Contracts for the International Sale of Goods as of 11 April 1980 does not hold here.
(3) Insofar as the contract or these General Terms of Delivery contain any regulatory gaps, in order to fill in such gaps, those legally effective regulations will 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 of Delivery, if they had known the regulatory gap.

NOTICE:

The Principal will take note that alwitra will store data from the contractual relationship according to § 28 of the Federal Data Protection Act for purposes of data processing, and will reserve the right to transfer such data to third parties (e. g., insurance companies) if necessary for the performance of the contract.

Notes

alwitra

Ideas that made history.

1964
first multipart roof edge trim profile

1969
first height-adjustable paving slab support

1971
first thermoplastic synthetic waterproofing membrane made of solid alloy

1972
first rooflight upstand made of PUR integral foam incl. connecting strip

1973
first roll-formed roof edge trim profiles made of aluminium

1980
first flow optimized rainwater outlet

1985
first waterproofing membrane made of thermoplastic elastomer

1991
first rooflight dome with translucent thermal insulation

1999
first power generating synthetic waterproofing membrane EVALON® Solar

2004
first thermal fire shutter for automatic closing of outlets and vents in the case of fire

2005
EVALON® Solar gains the “Golden Batimat“

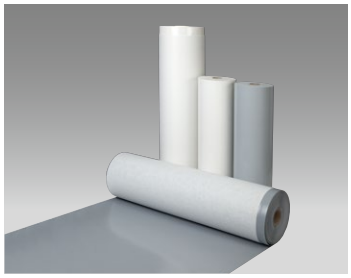
2010
EVALON® Solar obtains a patent for special cable routing technic

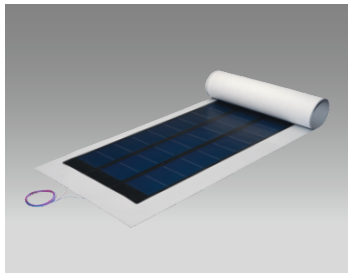
2011
first Environmental Product Declaration (EPD) for EVALON® and EVALASTIC® according to the guidelines of the IBU

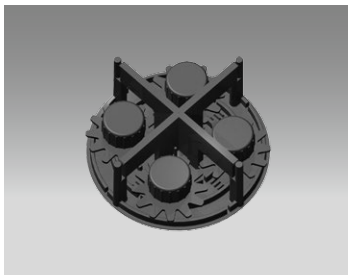
2013
first self-adhesive and homogeneous weldable EPDM waterproofing membrane with integrated fire protection layer

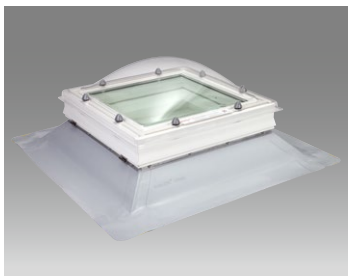
2014
new daylight systems

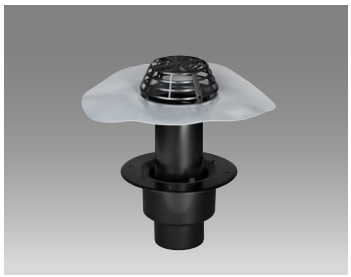
2015
new roof drainage system and flat roof vents











alwitra

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