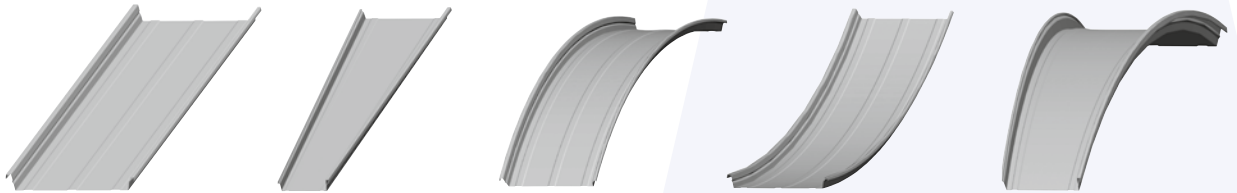
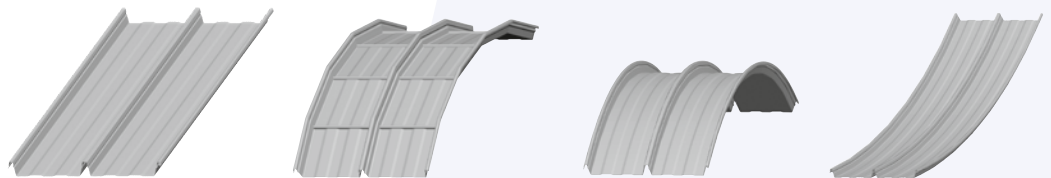


**RIB-ROOF Evolution**



**RIB-ROOF Speed 500**



**RIB-ROOF 465**

**DELIVERY PROGRAM**

# CHOICE OF MATERIALS AND SURFACES





## EXPERIENCE DIVERSITY

### MATERIALS

	<b>Aluminium</b> mill finish / stucco-embossed 0.8 / 1.0 mm
	<b>Aluminium</b> surface-treated 0.7 / 0.8 / 1.0 mm
	<b>Steel sheet</b> galvanised and colour-coated 0.63 mm
	<b>Titanzink</b> mill finish or pre-weathered 0.7 / 0.8 mm
	<b>Copper</b> mill finish 0.6 mm

### SPECIAL SURFACES

Special colours and surfaces on request e.g. in aluminium:

	<b>Alu Patina</b>
	<b>Aluminium Zinc Look</b> delivery will be effected with protective foil
	<b>Stucco-embossed Patina Matt</b>
	<b>AluNatur</b> available in many colour variations

Of course there is the possibility to deliver other colour coatings, materials and lacquer qualities subject to certain amounts and adequate delivery times.  
Price on request.

### COLOUR COATINGS

	<b>Steel</b> galvanised, polyester coated 0.63 mm <b>Aluminium</b> polyester coated 0.8 mm
	<b>Steel</b> galvanised, polyester coated 0.63 mm <b>Aluminium</b> polyester coated 0.7 / 0.8 / 1.0 mm
	<b>Steel</b> galvanised, polyester coated 0.63 mm <b>Aluminium</b> polyester coated 0.8 mm
	<b>Aluminium</b> polyester coated 0.8 mm
	<b>Aluminium</b> polyester coated 0.8 mm
	<b>Aluminium</b> polyester coated 0.8 mm
	<b>Steel</b> galvanised, Polyesterlack 0.63 mm <b>Aluminium</b> polyester coated 0.8 / 1.0 mm
	<b>Steel</b> galvanised, polyester coated 0.63 mm <b>Aluminium</b> polyester coated 0.8 / 1.0 mm

Images are similar to the RAL colours

Aluminium mill finish, coil-coated on both sides,  
Steel sheet, coil-galvanised coated on both sides

Colour coating on both sides:  
Top side 25 µm in RAL colours, rear side protective coating light-coloured

You can find detailed information in the brochure  
"Materials, Surfaces, Colours", in the download area:



[download-ribroof-en.zambelli.com](http://download-ribroof-en.zambelli.com)

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## RIB-ROOF 465

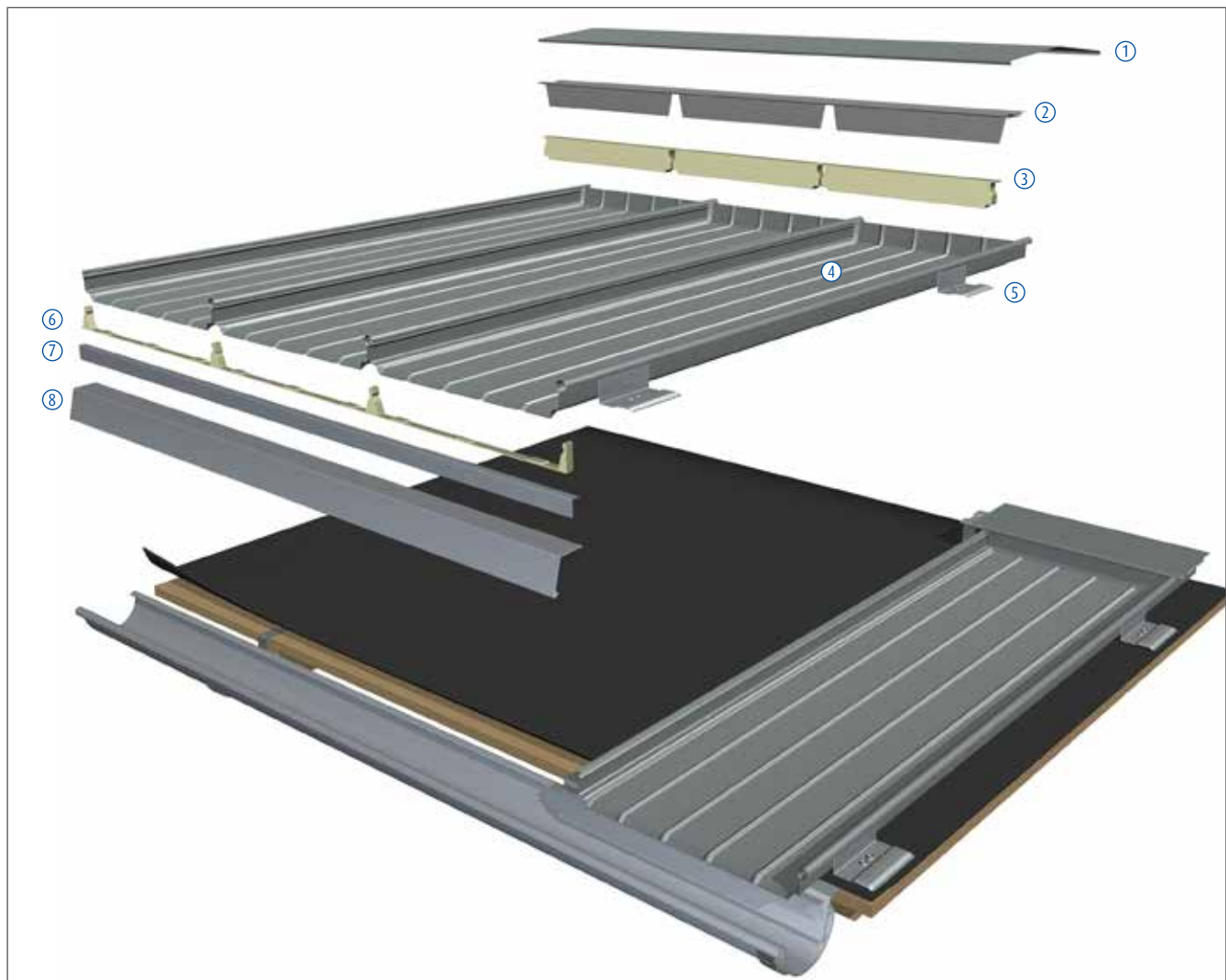
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## Accessories

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Structured separation layer (without protective sheet), blind rivet/cup blind rivet, accessories for installation and tools, fall arrest system/personal safety system, single anchor point, green roof .....	27
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# RIB-ROOF EVOLUTION

## OVERVIEW



- ① Ridge cap
- ② Closure

- ③ Profile filler - top side
- ④ RIB-ROOF Evolution

- ⑤ Directional clip Evolution
- ⑥ Profile filler - rear side

- ⑦ Eaves angle
- ⑧ Gutter inlet sheet



### Film "Installation principle RIB-ROOF Evolution with directional clips 200 on wooden counter-/transverse lathing"

Discover within two minutes how to install RIB-ROOF Evolution with straight profiled sheets and directional clips 200.  
<http://install-evolution-directional-clip-wooden.zambelli.com>



### Film of "Installation principle RIB-ROOF Evolution curved profiled sheets with turned directional clips 70 on wooden counter-/transverse lathing"

Discover within two minutes how to install RIB-ROOF Evolution with curved profiled sheets and turned directional clips 70.  
<http://install-evolution-curved-wooden.zambelli.com>



### Film of "Installation principle RIB-ROOF Evolution with directional profile 750 on rigid insulation boards"

Discover within two minutes how to install RIB-ROOF Evolution with directional profiles 750 on rigid insulation boards.  
<http://install-evolution-directional-profile.zambelli.com>



### Film of "Installation principle RIB-ROOF Evolution with directional profile 1500 on wooden counter-/transverse lathing"

Discover within two minutes how to install RIB-ROOF Evolution with directional profiles 1500 on wooden counter-/transverse lathing.  
<http://install-evolution-directional-profile-wooden.zambelli.com>



Zambelli channel on Youtube:  
[www.youtube.com/ZambelliGermany](http://www.youtube.com/ZambelliGermany)

# RIB-ROOF EVOLUTION

## PROFILED SHEETS

### Profiled sheets

Construction width 500 mm | profile height 67 mm | CE-marking according to ETA-17/1068/1069 for steel and aluminium

Material	Surface corrosion protection	Thickness of material (mm)	Weight (kg/m <sup>2</sup> )	Article no.
Steel	alu-zinc alloy	0.63	6.81	600163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	6.76	600263
	galvanized and colour-coated, top side 25 µm PVDF coating, rear side protective coating	0.63	6.76	600363
	mill finish or mill finish and stucco-embossed	0.70	2.53	600370
Aluminium	mill finish and stucco-embossed with protective plating on both sides	0.80	2.89	600380
		0.90	3.26	600390
		1.00	3.62	600310
		1.00	3.62	600810
	colour-coated, top side 25 µm polyester coating, rear side protective coating	0.70	2.66	600470
		0.80	3.02	600480
		0.90	3.39	600490
		1.00	3.75	600410
	patina look	0.70	2.66	600975
		0.70	2.66	600472
Special colours and surfaces	zinc look	1.00	3.75	600412
		0.70	2.66	600473
	patina matt stucco-embossed	1.00	3.75	600413
		0.70	2.66	600473
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	6.75	600570
		0.80	7.72	600580
	pre-weathered DIN EN 988	0.70	6.75	600670
		0.80	7.72	600680
	rear side protective coating 60 µm			600700
Copper MK notation	mill finish DIN EN 1172	0.60	7.20	600660
Special construction width	333 mm			
	400 mm			
	up to 600 mm			



### Extras

Extras for	Description	Article no.
Fleece coating for anticondensation / sound absorption	water absorption, up to 900 g/m <sup>2</sup>	690090
Acoustic fleece coating	for acoustic roofs RIB-ROOF, rainfall noise reduction 6dB according to ISO 140-18	690093
Tapered profiled sheets	minimum construction width of 230 mm up to maximum width of 500 mm	692000
Curving	radius 5.00 m - 14.99 m convex	691000
	radius > 15.00 m convex	691010
	radius > 20.00 m concave	691200
	S-curving: convex/concave	691300
	of tapered profiled sheets	692200
	extra and over for a radius < 10.00 m for cutting of straight ends	
Rollforming on site	lump sum for profiled sheet lengths of more than 33.00 m	695030
Curving on site	or for profiled sheets which are not transportable → rollforming on site	695040
Freight	for overlength > 14.60 m	950000-3
	for curved profiled sheets	950000-3
Spreader beam	incl. fixed crane hook, without belts	950005



# RIB-ROOF EVOLUTION

## FIXING ELEMENTS/RIDGE

### Fixing element (holding bracket)

Description		Material	Dimension (mm)	Thickness of material (mm)	Packaging unit	Article no.
Standard clip 70		steel with alu-zinc alloy	L=70	1.30	25	601100
Turned clip 70	to be used with curved profiled sheets	steel with alu-zinc alloy	L=70	1.00	25	603210-0070
Directional clip 200	also for fixed point	steel with alu-zinc alloy	L=195	1.00		603110-0200
Turned directional clip 200	also for fixed point	steel with alu-zinc alloy	L=195	1.00		603210-0200
Directional profile 750 / 1500 / 2600	usable as fixed point with very long profiled sheets, roof overhang	steel with alu-zinc alloy	L=745	1.00		603110-0750
			L=1495	1.00		603110-1500
			L=2595	1.00		603110-2600
Turned directional profile 750 / 1500 / 2600	usable as fixed point with very long profiled sheets, roof overhang	steel with alu-zinc alloy	L=745	1.00		603210-0750
			L=1495	1.00		603210-1500
			L=2595	1.00		603210-2600

### Ridge cap for warm roof construction max. length 6.00 m | 3 edges | also available with storm protection

Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416mm	Article no. cutting 625mm
Steel	alu-zinc alloy	0.63	410163	411163	412163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	410263	411263	412263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	410310	411310	412310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	410410	411410	412410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	410570	411570	412570
Copper MK notation	mill finish DIN EN 1172	0.60	410660	411660	412660
Extra:	Steel storm protection	1.30			

Please indicate roof pitch when ordering ridge cap!

### Closure construction length 1540 mm | cutting 223 mm | cover length 1500 mm (Special width is available upon request)

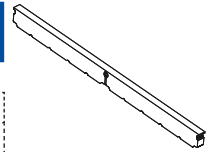
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	630163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	630263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	630380
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	630310
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	630410
Copper MK notation	mill finish DIN EN 1172	0.60	630570
			630660

# RIB-ROOF EVOLUTION

## RIDGE/VENTILATION RIDGE

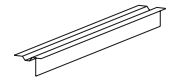
### Profile filler – top side (Special width is available upon request) sealing tape

Material	Application	Dimension (mm)	Article no.
PE Foam	profile filler top side, for ridge / closure	30 x 1000	619000
	profile filler stripe top side, for aris / suspended profile	30 x 1100	619100
PUR Foam	sealing tape impermeable to driving rain, vapour permeable, single side self-adhesive	width 15 / 1-4	419200-1



### Suspended profile for aris maximum length 6.00 m | cutting 223 mm

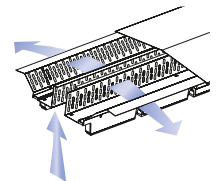
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	643163
	galvanized and colour-coated	0.63	643263
Aluminium	mill finish and stucco-embossed	1.00	643310
	colour-coated	1.00	643410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	643570
Copper MK notation	mill finish DIN EN 1172	0.60	643660



### Ventilation ridge cap for cold roof construction

Assembly set with integrated ventilation closures (construction length 2030 mm), profile fillers and ridge cap (length maximum 6.00 m) | construction height 65 mm, free ventilation section 450 cm<sup>2</sup>/m

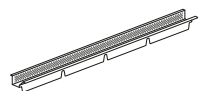
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	621163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	621263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	621310
	colour-coated, top side 25 µm polyester coating, rear side protective coating	1.00	621410
Titanium zinc Zinc notation LME	mill finish DIN EN 988, rear side protective coating	0.70	621570
Copper MK notation	mill finish DIN EN 1172	0.60	621660



Please indicate roof pitch when ordering ventilation ridge caps!

### Ventilation closure construction length 2030 mm | cutting 417 mm | length 2000 mm

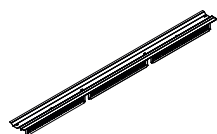
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	631163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	631263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	631310
	colour-coated, top side 25 µm polyester coating, rear side protective coating	1.00	631410
Titanium zinc Zinc notation LME	mill finish DIN EN 988, rear side protective coating	0.70	631570
Copper MK notation	mill finish DIN EN 1172	0.60	631660





# RIB-ROOF EVOLUTION

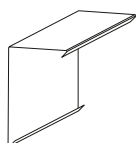
## VERGE



**Green roof closure** construction length 1540 mm / cutting 223 mm / covering length 1500 mm / perforated

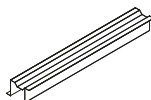
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Aluminium	mill finish and stucco-embossed (or mill finish)	1.00	631310-GRDA

**Cover sheet for verge** maximum length 6.00 m | 3 edges | also available with a joint connector as an extra article cutting 100 mm, up to 3 edges



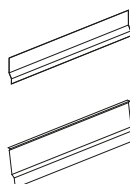
Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416 mm
Steel	alu-zinc alloy	0.63	440163	441163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	440263	441263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	440310	441310
	colour-coated, top side 25 µm polyester coating, rear side protective coating	1.00	440410	441410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	440570	441570
Copper MK notation	mill finish DIN EN 1172	0.60	440660	441660
Extra:	joint connector made out of steel sheet or aluminium			
Extra:	joint connector made out of titanium zinc or copper			

**Suspended profile** maximum length 6.00 m | cutting 330 mm



Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	648163
	galvanized and colour-coated	0.63	648263
Aluminium	mill finish and stucco-embossed	1.00	648310
	colour-coated	1.00	648410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	648570
Copper MK notation	mill finish DIN EN 1172	0.60	648660

**Retaining / stopping plate** maximum length 6.00 m | cutting 125 mm | 2 edges | cutting 250 mm | 4 edges



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 125 mm	Article no. cutting 250 mm
Steel	alu-zinc alloy	0.63	442163	447163
	galvanized and colour-coated	0.63	442263	447263
		1.00	442210	447210
Aluminium	mill finish and stucco-embossed	1.00	442310	447310
	colour-coated	1.00	442410	447410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	442570	447570
Copper MK notation	mill finish DIN EN 1172	0.60	442660	447660



# RIB-ROOF EVOLUTION

## EAVES

**Gutter inlet sheet / eaves panel** maximum length 6.00 m | cutting 312 mm | 3 edges

Material	Surface corrosion protection	Thickness of material (mm)	Article no. gutter inlet sheet	Article no. eaves panel
Steel	alu-zinc alloy	0.63	450163	451163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	450263	451263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	450380	451380
		1.00	450310	451310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	450410	451410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	450570	451570
Copper MK notation	mill finish DIN EN 1172	0.60	450660	451660

Please indicate roof pitch when ordering gutter inlet sheet or eaves panel!

**Profile filler - rear side** (Special width is available upon request)

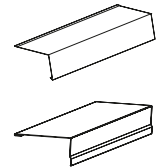
Material	Application	Dimension (mm)	Article no.
High-density polyethylene	profile filler, rear side	30 x 1000	659000

**Eaves angle** maximum length 3.00 m

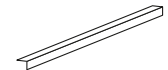
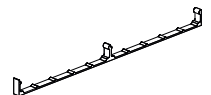
Material	Surface	Dimension (mm)	Packaging unit	Article no.
Aluminium	mill finish	40 x 20 x 2	3 m	451020



Please use the order form for flashings:  
order-form-flashings.zambelli.com



RIB-ROOF Evolution

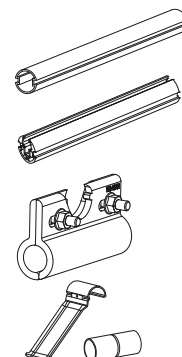


# RIB-ROOF EVOLUTION

## ACCESSORIES

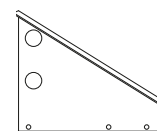
### Snow guard and ice retaining system

Description		Material/finish	Thickness of material (mm)	Packaging unit	Article no.
Snow guard pipe Ø 32 mm with groove*		aluminium	2.00	3.0 m	470310
Solar pipe Ø 32 mm with groove*	suitable module clamps for fastening of PV modules are available upon request	aluminium	2.00	6.0 m	470360
Snow guard/solar pipe bracket*	(2.0 pcs/m) construction width 120 mm for snow guard pipe/solar pipe Ø 32 mm with groove	aluminium			671331
Ice stopper	(4 pcs/m) construction width 50 mm for locking	aluminium		25	577331
Pipe connector	for snow guard pipe/solar pipe outside	aluminium			477710



### Snow guard raising element

Description		Material	Thickness of material (mm)	Article no.
Snow guard raising element	for stable raising of the snow guard row, e.g. for photovoltaic systems by about 200 mm	aluminium	3.00	472330

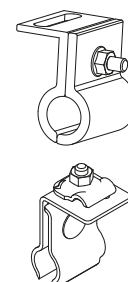


A finished snow guard raising element holds three snow guard pipes and needs two snow guard brackets.  
When refitting an old building or raising a new building please order it accordingly.  
The distances of the snow guard row according to our manual guide can be increased by 50 %.

### Solar bracket / Bracket for lightning protection

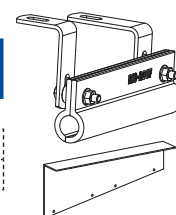
Construction length 55 mm | aluminium uncoated | usable as bracket for lightning protection according to DIN EN 50164-1, test category N

Description		Material	Article no.
Solar bracket* / lightning protection	preassembled with angles for solar moduls	aluminium	675331
Bracket for lightning protection	for lightning protection	aluminium, thickness of material 3 mm	678300



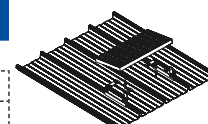
### Tread support construction length 210 mm | standard for roof pitches up to 15° | for higher pitches on request

Description		Material	Article no.
Tread support*	adjustable for roof pitches of 0° up to 15°	aluminium	676331
Angle bracket	conical, for roof pitches < 30°	aluminium	476710



### Walkways roof pitches 0° – 30°

Description		Material/technical details	Article no.
Walkway	with anti-skid protection, incl. mounting accessories	steel sheet galvanized, 250 x 600 mm	476100-600
		steel sheet galvanized, 250 x L to 3000 mm	476100-

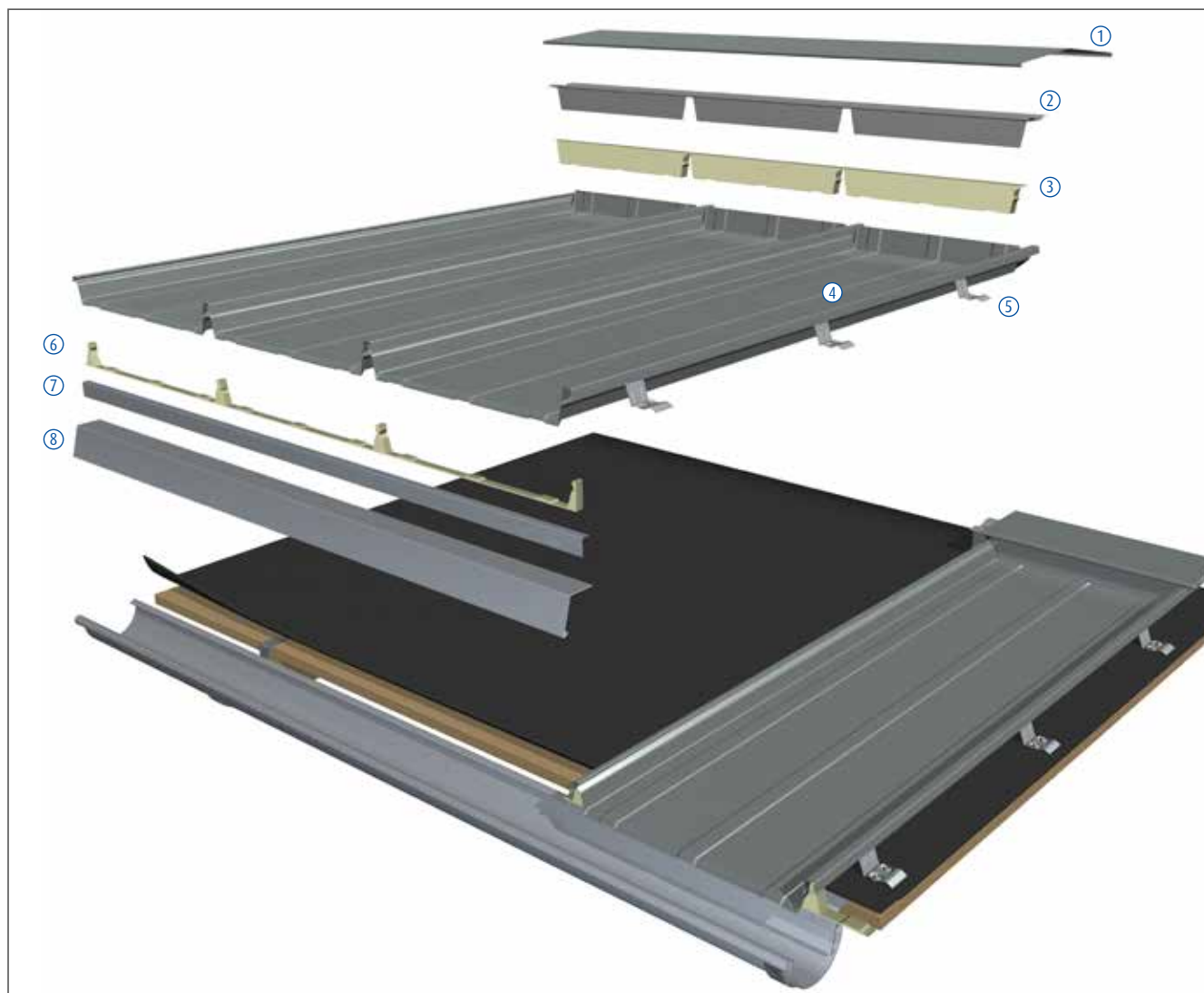


Walkways also available as single steps, longitudinal walkways with balustrates, execution in aluminium / aluminium die casting and steel galvanized / aluminium die casting on request

\* authorisation approval Z-14.4-774

# RIB-ROOF Speed 500

## OVERVIEW



- ① Ridge cap
- ② Closure

- ③ Profile filler - top side
- ④ RIB-ROOF Speed 500

- ⑤ Standard clip Speed 500
- ⑥ Profile filler - rear side

- ⑦ Eaves angle
- ⑧ Gutter inlet sheet



### Film "Installation principle RIB-ROOF Speed 500 with standard clips on wooden counter / transverse lathing"

Discover within two minutes how to install RIB-ROOF Speed 500 with straight profiled sheets and standard clips.  
<http://install-speed500.zambelli.com>



### Film "Installation principle RIB-ROOF Speed 500 with curved profiled sheets and turned clips on wooden counter / transverse lathing"

Discover within two minutes how to install RIB-ROOF Speed 500 curved profiled sheets with turned clips.  
<http://install-speed500-curved.zambelli.com>



### Film "Installation principle RIB-ROOF Speed 500 with flat clip border on rigid insulation boards"

Discover within two minutes how to install RIB-ROOF Speed 500 with flat clip border on rigid insulation boards.  
<http://install-speed500-clipborder.zambelli.com>



### Film "Live-Installation": 920 qm roof area within 2 hours

This documentation film shows how quickly roofing with RIB-ROOF metal roofing systems works.  
<http://movie-speed500.zambelli.com>



Zambelli channel on Youtube:  
[www.youtube.com/ZambelliGermany](http://www.youtube.com/ZambelliGermany)

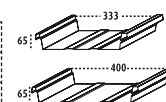
# RIB-ROOF Speed 500

## PROFILED SHEETS

### Profiled sheets

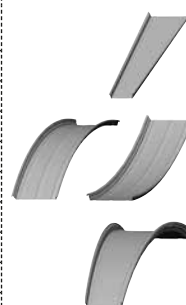
Construction width 500 mm | profile height 65 mm | CE-marking according to ETA-18/0034/0035 for steel and aluminium

Material	Surface corrosion protection	Thickness of material (mm)	Weight (kg/m <sup>2</sup> )	Article no.
Steel	alu-zinc alloy	0.63	6.81	500163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	6.76	500263
	galvanized and colour-coated, top side 25 µm PVDF coating, rear side protective coating	0.63	6.76	500363
	mill finish or mill finish and stucco-embossed	0.70	2.53	500370
Aluminium	mill finish and stucco-embossed with protective plating on both sides	0.80	2.89	500380
		0.90	3.26	500390
		1.00	3.62	500310
		1.00	3.62	500810
	colour-coated, top side 25 µm polyester coating, rear side protective coating	0.70	2.66	500470
		0.80	3.02	500480
		0.90	3.39	500490
		1.00	3.75	500410
Special colours and surfaces	patina look	0.70	2.66	500975
	zinc look	0.70	2.66	500472
		1.00	3.75	500412
		0.70	2.66	500473
	patina matt stucco-embossed	1.00	3.75	500413
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	6.75	500570
		0.80	7.72	500580
	pre-weathered DIN EN 988	0.70	6.75	500670
		0.80	7.72	500680
Copper MK notation	rear side protective coating 60 µm	0.60	7.20	500700
				500660
Special construction width	333mm			
	400mm			
	up to 600mm			



### Extras

Extras for	Description	Article no.
Fleece coating for anticondensation / sound absorption	water absorption, up to 900 g/m <sup>2</sup>	590090
Acoustic fleece coating	for acoustic roofs RIB-ROOF, rainfall noise reduction 6dB according to ISO140-18	590093
Tapered profiled sheets	minimum construction width of 230 mm up to maximum width of 500 mm	592000
Curving	radius 1.00 m - 14.99 m convex	591000
	radius > 15.00 m convex	591010
	radius > 10.00 m concave	591200
	S-curving: convex/concave	591300
	of tapered profiled sheets	592200
	extra and over for a radius < 5.00 m for cutting of straight ends	
Rollforming on site	lump sum for profiled sheet lengths of more than 33.00 m	595030
Curving on site	or for profiled sheets which are not transportable → rollforming on site	595040
Folding up at ridge side		593000
Folding down at eaves side		593010
Freight	for over length >14.60 m	950000-3
	for curved profiled sheets	950000-3
Spreader beam	incl. fixed crane hook, without belts	950005

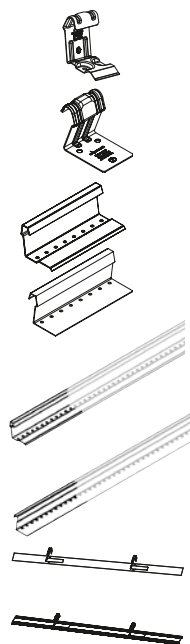


RIB-ROOF Speed 500

# RIB-ROOF Speed 500

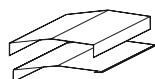
## FIXING ELEMENTS/RIDGE

### Fixing element (holding bracket)



Description		Material	Dimension (mm)	Thickness of material (mm)	Packaging unit	Article no.
Standard clip		steel with alu-zinc alloy		1.30	25	501101
		copper		1.30		501600
Turned clip	to be used with curved profiled sheets	steel with alu-zinc alloy		1.30	25	502101
		copper		1.30		502600
*alternatively for copper profiled sheets: stainless steel clips 1.20 mm on request						
Directional clip 200	also for fixed point	steel with alu-zinc alloy	L=195	1.00		503110-0200
Turned directional clip 200	also for fixed point	steel with alu-zinc alloy	L=195	1.00		503210-0200
Directional profile 750 / 1500 / 2600	usable as fixed point with very long profiled sheets, roof overhang	steel with alu-zinc alloy	L=745	1.00		503110-0750
			L=1495	1.00		503110-1500
			L=2595	1.00		503110-2600
Turned directional profile 750 / 1500 / 2600	usable as fixed point with very long profiled sheets, roof overhang	steel with alu-zinc alloy	L=745	1.00		503210-0750
			L=1495	1.00		503210-1500
			L=2595	1.00		503210-2600
Clip border	flat on timber boarding or rigid insulation boards	steel with alu-zinc alloy	1.30	114 x 3000		505110
	perforated on rigid insulation boards	steel with alu-zinc alloy	1.30	104 x 3000		505100
	<b>Please note:</b> In case that the trapezoidal sheets are installed onto purlins from ridge to eaves' side it is possible to use RIB-ROOF Speed 500 flat clip border onto rigid insulation boards when you have certain dimensions of the trapezoidal sheet (the top chord recurs every 125, 250 alternatively every 500 mm).					

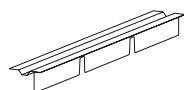
### Ridge cap for warm roof construction max. length 6.00 m | 3 edges | also available with storm protection



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416mm	Article no. cutting 625mm
Steel	alu-zinc alloy	0.63	410163	411163	412163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	410263	411263	412263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	410310	411310	412310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	410410	411410	412410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	410570	411570	412570
Copper MK notation	mill finish DIN EN 1172	0.60	410660	411660	412660
Extra:	Steel storm protection	1.30			

Please indicate roof pitch when ordering ridge cap!

### Closure construction length 1540 mm | cutting 223 mm | cover length 1500 mm (Special width is available upon request)



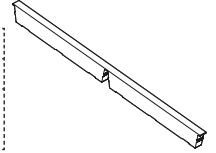
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	530163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	530263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	530380
		1.00	530310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	530410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	530570
Copper MK notation	mill finish DIN EN 1172	0.60	530660

# RIB-ROOF Speed 500

## RIDGE/VENTILATION RIDGE

### Profile filler – top side (Special width is available upon request) sealing tape

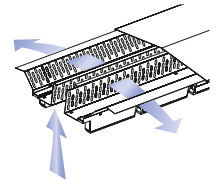
Material	Application	Dimension	Article no.
PE Foam	profile filler top side, for ridge / closure	30 x 1000	519000
	profile filler stripe top side for arris / suspended profile	30 x 1100	519100
PUR Foam	sealing tape impermeable to driving rain, vapour permeable, single side self-adhesive	width 15 / 3-9	419200-3



### Ventilation ridge cap for cold roof construction

Assembly set with integrated ventilation closures (construction length 2030 mm), profile fillers and ridge cap (length maximum 6.00 m) | construction height 65 mm, free ventilation section 450 cm<sup>2</sup>/m

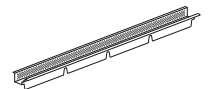
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	521163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	521263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	521310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	521410
Titanium zinc Zinc notation LME	mill finish DIN EN 988, rear side protective coating	0.70	521570
Copper MK notation	mill finish DIN EN 1172	0.60	521660



Please indicate roof pitch when ordering ventilation ridge caps!

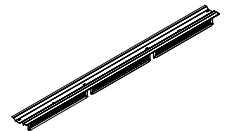
### Ventilation closure construction length 2030 mm | cutting 417 mm | length 2000 mm

Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	531163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	531263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	531310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	531410
Titanium zinc Zinc notation LME	mill finish DIN EN 988, rear side protective coating	0.70	531570
Copper MK notation	mill finish DIN EN 1172	0.60	531660



### Green roof closure construction width 1540 mm | cutting 223 mm | covering length 1500 mm | perforated

Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Aluminium	mill finish and stucco-embossed (or mill finish)	1.00	531310-GRDA



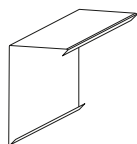
Please use the order form for flashings:

[order-form-flashings.zambelli.com](mailto:order-form-flashings.zambelli.com)

# RIB-ROOF Speed 500

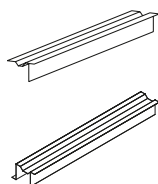
## VERGE

**Cover sheet for verge** maximum length 6.00 m | 3 edges | also available with a joint connector as an extra article | cutting 100 mm, up to 3 edges



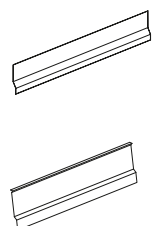
Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416 mm
Steel	alu-zinc alloy	0.63	440163	441163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	440263	441263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	440310	441310
	colour-coated, top side 25 µm polyester coating, rear side protective coating	1.00	440410	441410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	440570	441570
Copper MK notation	mill finish DIN EN 1172	0.60	440660	441660
Extra:	joint connector made out of steel sheet or aluminium			
Extra:	joint connector made out of titanium zinc or copper			

**Suspended profile** maximum length 6.00 m | cutting 223 mm also usable as suspended profile for arris | cutting 330 mm



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 223 mm	Article no. cutting 330 mm
Steel	alu-zinc alloy	0.63	543163	548163
	galvanized and colour-coated	0.63	543263	548263
Aluminium	mill finish and stucco-embossed	1.00	543310	548310
	colour-coated	1.00	543410	548410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	543570	548570
Copper MK notation	mill finish DIN EN 1172	0.60	543660	548660

**Retaining / stopping plate** maximum length 6.00 m | cutting 125 mm | 2 edges | cutting 250 mm | 4 edges

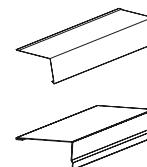


Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 125 mm	Article no. cutting 250 mm
Steel	alu-zinc alloy	0.63	442163	447163
	galvanized and colour-coated	0.63	442263	447263
		1.00	442210	447210
Aluminium	mill finish and stucco-embossed	1.00	442310	447310
	colour-coated	1.00	442410	447410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	442570	447570
Copper MK notation	mill finish DIN EN 1172	0.60	442660	447660



### Gutter inlet sheet / eaves panel maximum length 6.00 m | cutting 312 mm | 3 edges

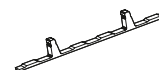
Material	Surface corrosion protection	Thickness of material (mm)	Article no. gutter inlet sheet	Article no. eaves panel
Steel	alu-zinc alloy	0.63	450163	451163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	450263	451263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	450380	451380
		1.00	450310	451310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	450410	451410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	450570	451570
Copper MK notation	mill finish DIN EN 1172	0.60	450660	451660



Please indicate roof pitch when ordering gutter inlet sheet or eaves panel!

### Profile filler - rear side (Special width is available upon request)

Material	Application	Dimension (mm)	Article no.
High-density polyethylene	profile filler - rear side	30 x 1000	559000



### Eaves angle maximum length 3.00 m

Material	Surface	Dimension (mm)	Packaging unit	Article no.
Aluminium	mill finish	40 x 20 x 2	3 m	451020

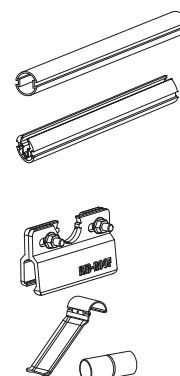


# RIB-ROOF Speed 500

## ACCESSORIES

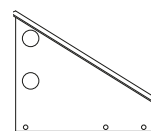
### Snow guard and ice retaining system

Description	Material/technical details	Thickness of material (mm)	Packaging unit	Article no.
Snow guard pipe ø32 mm with groove*	aluminium	2.00	3.0 rm	470310
Solar pipe ø32 mm with groove*	suitable module clamps for fastening of PV modules are available upon request aluminium	2.00	6.0 rm	470360
Snow guard/solar pipe bracket*	(2.0 pcs/m) construction width 120 mm for snow guard pipe/solar pipe Ø 32 mm with groove aluminium			571331
Ice stopper	(4 pcs/m) construction width 50 mm for locking aluminium		25	577331
Pipe connector	for snow guard pipe/solar pipe outside aluminium			477710



### Snow guard raising element

Description	Material	Thickness of material (mm)	Article no.
Snow guard raising element	for stable raising of the snow guard row, e.g. for photovoltaic systems by about 200 mm aluminium	3.00	472330

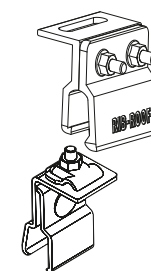


A finished snow guard raising element holds three snow guard pipes and needs two snow guard brackets.  
When refitting an old building or raising a new building please order it accordingly.  
The distances of the snow guard row according to our manual guide can be increased by 50 %.

### Solar bracket / Bracket for lightning protection

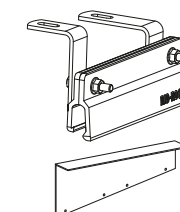
Construction length 80 mm | aluminium uncoated | usable as bracket for lightning protection according to DIN EN 50164-1, test category N

Description	Material	Article no.
Solar bracket* / lightning protection	preassembled with angles for solar modules aluminium	575331
Bracket for lightning protection	for lightning protection aluminium, thickness of material 3 mm	578300



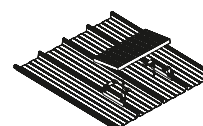
### Tread support construction length 210 mm | standard for roof pitches up to 15° | for higher pitches on request

Description	Material	Article no.
Tread support*	adjustable for roof pitches of 0° up to 15° aluminium	576331
Angle bracket	conical, for roof pitches < 30° aluminium	476710



### Walkways roof pitches 0° – 30°

Description	Material/technical details	Article no.
Walkway	with anti-skid protection, incl. mounting accessories steel sheet galvanized, 250 x 600 mm steel sheet galvanized, 250 x L to 3000 mm	476100-600 476100-

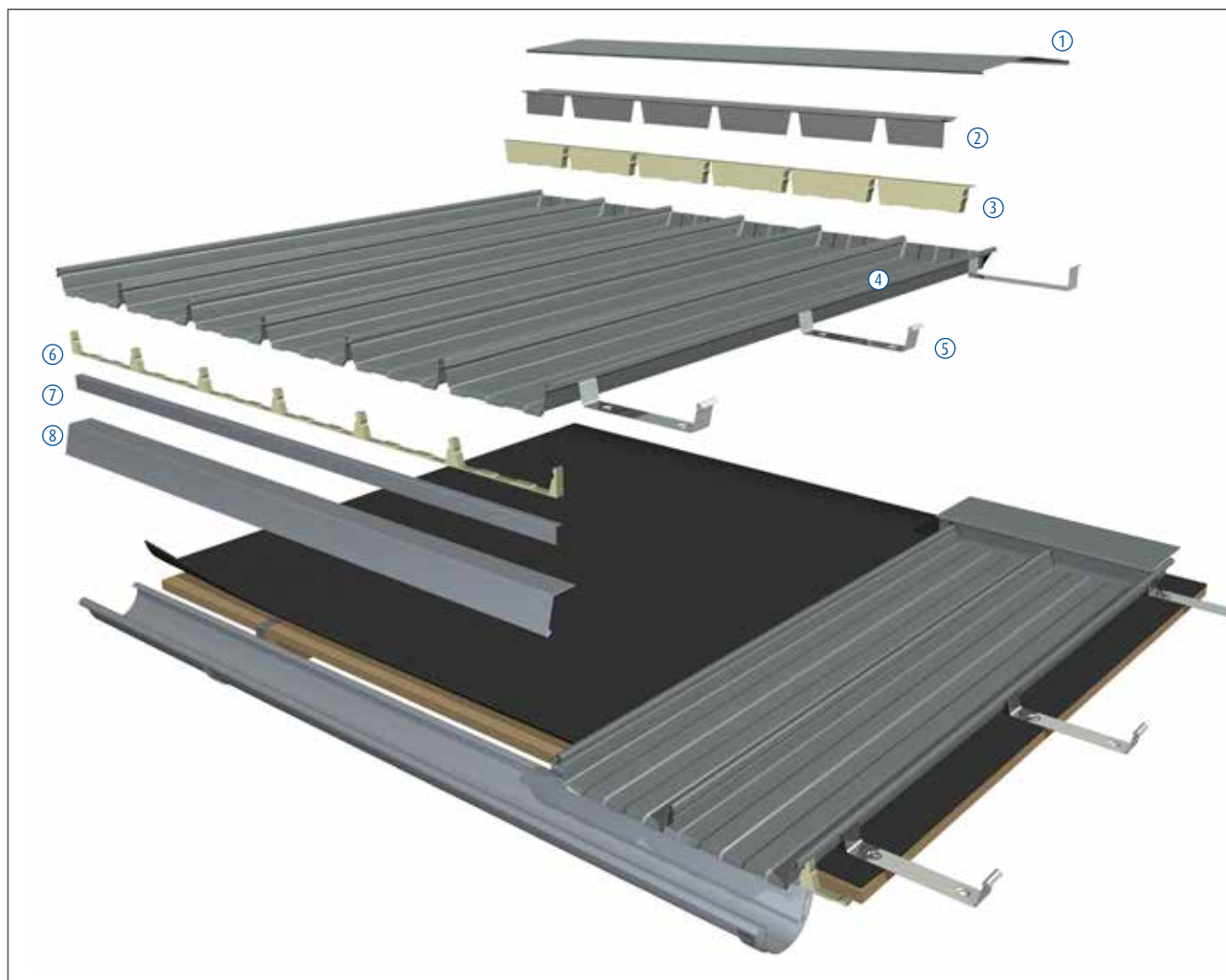


Walkways also available as single steps, longitudinal walkways with balustrates, execution in aluminium / aluminium die casting and steel galvanized / aluminium die casting on request

\* authorisation approval Z-14.4-774

# RIB-ROOF 465

## OVERVIEW



- ① Ridge cap
- ② Closure

- ③ Profile filler - top side
- ④ RIB-ROOF 465

- ⑤ Standard clip 465
- ⑥ Profile filler - rear side

- ⑦ Eaves angle
- ⑧ Gutter inlet sheet



### Film "Installation principle RIB-ROOF 465 with standard clips on wooden counter/transverse lathing"

Discover within two minutes how to install RIB-ROOF 465 with straight profiled sheets and standard clips.  
<http://install-465.zambelli.com>

# RIB-ROOF 465

## PROFILED SHEETS

**Profiled sheets** construction width 465 mm, profile height 48 mm | CE-marking according to DIN EN 14782 for steel and aluminium

Material	Surface corrosion protection	Thickness of material (mm)	Weight (kg/m <sup>2</sup> )	Article no.
Steel	alu-zinc alloy	0.63	7.33	400163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	7.24	400263
	galvanized and colour-coated, top side 25 µm PVDF coating, rear side protective coating	0.63	7.24	400363
Aluminium	mill finish or mill finish and stucco-embossed	0.70	2.71	400370
		0.80	3.09	400380
		0.90	3.48	400390
		1.00	3.87	400310
	mill finish and stucco-embossed with protective plating on both sides	1.00	3.87	400810
		0.70	2.86	400470
		0.80	3.25	400480
		0.90	3.64	400490
		1.00	4.03	400410
Special colours and surfaces	patina look	0.70	2.86	400975
	zinc look	0.70	2.86	400472
		1.00	4.03	400412
	patina matt stucco-embossed	0.70	2.86	400473
		1.00	4.03	400413
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	7.22	400570
		0.80	8.26	400580
	pre-weathered DIN EN 988	0.70	7.22	400670
		0.80	8.26	400680
	rear side protective coating 60 µm			400700
Copper MK notation	mill finish DIN EN 1172	0.60	7.70	400661



### Extras

Extras for	Description	Article no.
Fleece coating for anticondensation / sound absorption	water absorption, up to 900 g/m <sup>2</sup>	490090
Curving	radius 6.00 m - 9.99 m convex	491000
	radius 10.00 m - 14.99 m convex	491010
	radius 15.00 - 19.99 m convex	491020
	radius > 20.00 m convex	491030
	radius > 20.00 m concave	491200
	S-curving: convex/concave	491300
Rollforming on site	extra for radius < 10.00 m for cutting of straight ends	
Curving on site	lump sum for profiled sheets lengths of more than 33.00 m or for profiled sheets which are not transportable → rollforming on site	495030 495040
Curving (forced curved)	radius 1.00 m - 6.00 m	491110
Folding up at ridge side		493000
Folding down at eaves side		493010
Freight	for over length >14.60 m	950000-3
	for curved profiled sheets	950000-3
Spreader beam	incl. fixed crane hook, without belts	950005

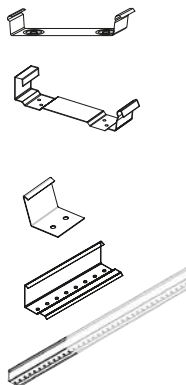


RIB-ROOF 465

# RIB-ROOF 465

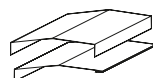
## FIXING ELEMENTS / RIDGE

### Fixing element (holding bracket)



Description		Material	Dimension (mm)	Thickness of material (mm)	Packaging unit	Article no.
Standard clip		steel with alu-zinc alloy		1.30	25	401100
		copper <sup>a</sup>		1.30		401600
Start-clip	to be used for installation of first profiled sheet	steel with alu-zinc alloy		1.30		406101
		copper <sup>a</sup>		1.30		406600
End-clip	to be used for installation of last profiled sheet	steel with alu-zinc alloy		1.30		402100
		copper <sup>a</sup>		1.30		402600
<sup>a</sup> alternatively for copper profiled sheets: stainless steel clips 1.20 mm on request						
Fixed point clip 200	for fixed point	steel with alu-zinc alloy	L = 195	1.00		403110-0200
Fixed point profile 750/1500/2600	usable as fixed point with very long profiled sheets, roof overhang	steel with alu-zinc alloy	L = 745	1.00		403110-0750
			L = 1495	1.00		403110-1500
			L = 2595	1.00		403110-2600

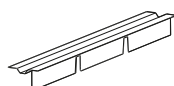
### Ridge cap for warm roof construction max. length 6.00 m | 3 edges | also available with storm protection



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416 mm	Article no. cutting 625 mm
Steel	alu-zinc alloy	0.63	410163	411163	412163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	410263	411263	412263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	410310	411310	412310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	410410	411410	412410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	410570	411570	412570
Copper MK notation	mill finish DIN EN 1172	0.60	410660	411660	412660
Extra:	Steel storm protection	1.30			

Please indicate roof pitch when ordering ridge caps!

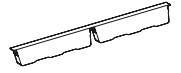
### Closure construction length 1210 mm | cutting 223 mm | cover length 1160 mm



Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	430163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	430263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	430380
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	430310
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	430570
Copper MK notation	mill finish DIN EN 1172	0.60	430660

### Profile filler – top side, sealing tape

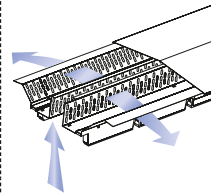
Material	Application	Dimension (mm)	Article no.
PE Foam	profile filler top side, for ridge / closure	30 x 930	419000
	profile filler stripe top side, for aris / suspended profile	30 x 1100	419100
PUR Foam	sealing tape impermeable to driving rain, vapour permeable, single side self-adhesive	width 15 / 2-6	419200-2



### Ventilation ridge cap for cold roof construction

Assembly set with integrated ventilation closures (construction length 1900 mm), profile fillers and ridge cap (length maximum 6.00 m) | construction height 65 mm, free ventilation section 450 cm<sup>2</sup>/m

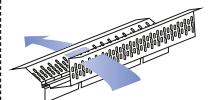
Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	421163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	421263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	421310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	421410
Titanium zinc Zinc notation LME	mill finish DIN EN 988, rear side protective coating	0.70	421570
Copper MK notation	mill finish DIN EN 1172	0.60	421660



Please indicate roof pitch when ordering ventilation ridge caps!

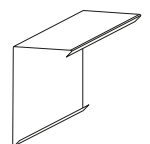
### Ventilation closure construction length 1900 mm | cutting 387 mm | length 1860 mm

Material	Surface corrosion protection	Thickness of material (mm)	Article no.
Steel	alu-zinc alloy	0.63	431163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	431263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	431310
	colour-coated, top side 25 µm polyester coating, rear side protective coating	1.00	431410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	431570
Copper MK notation	mill finish DIN EN 1172	0.60	431660



### Cover sheet for verge maximum length 6.00 m | 3 edges | also available with a joint connector as an extra article: cutting 100 mm, up to 3 edges

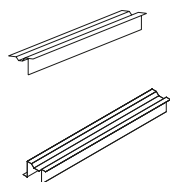
Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 312 mm	Article no. cutting 416 mm
Steel	alu-zinc alloy	0.63	440163	441163
	galvanized and colour-coated top side 25 µm polyester coating, rear side protective coating	0.63	440263	441263
Aluminium	mill finish or mill finish and stucco-embossed	1.00	440310	441310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	440410	441410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	440570	441570
Copper MK notation	mill finish DIN EN 1172	0.60	440660	441660
Extra:	joint connector made out of steel sheet or aluminium			
Extra:	joint connector made out of titanium zinc or copper			



# RIB-ROOF 465

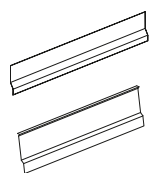
## VERGE

**Suspended profile** maximum length 6.00 m | cutting 223 mm also usable as suspended profile for arris | cutting 312 mm



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 223 mm	Article no. cutting 312 mm
Steel	alu-zinc alloy	0.63	443163	448163
	galvanized and colour-coated	0.63	443263	448263
Aluminium	mill finish and stucco-embossed	1.00	443310	448310
	colour-coated	1.00	443410	448410
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.70	443570	448570
Copper MK notation	mill finish DIN EN 1172	0.60	443660	448660

**Retaining / stopping plate** maximum length 6.00 m | cutting 125 mm | 2 edges | cutting 250 mm | 4 edges



Material	Surface corrosion protection	Thickness of material (mm)	Article no. cutting 125 mm	Article no. cutting 250 mm
Steel	alu-zinc alloy	0.63	442163	447163
	galvanized and colour-coated	0.63	442263	447263
Aluminium	mill finish and stucco-embossed	1.00	442210	447210
	colour-coated	1.00	442310	447310
Titanium zinc Zinc notation LME	mill finish DIN EN 988	0.80	442570	447570
Copper MK notation	mill finish DIN EN 1172	0.70	442660	447660



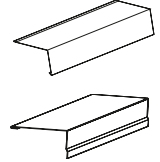
**Please use the order form for flashings:**

[order-form-flashings.zambelli.com](http://order-form-flashings.zambelli.com)



### Gutter inlet sheet / eaves panel maximum length 6.00 m | cutting 312 mm | 3 edges

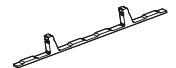
Material	Surface corrosion protection	Thickness of material (mm)	Article no. gutter inlet sheet	Article no. eaves panel
Steel	alu-zinc alloy	0.63	450163	451163
	galvanized and colour-coated, top side 25 µm polyester coating, rear side protective coating	0.63	450263	451263
Aluminium	mill finish or mill finish and stucco-embossed	0.80	450380	451380
		1.00	450310	451310
	colour-coated top side 25 µm polyester coating, rear side protective coating	1.00	450410	451410
Titanium zinc <small>Zinc notation LME</small>	mill finish DIN EN 988	0.70	450570	451570
		0.80	450580	451580
Copper <small>MK notation</small>	mill finish DIN EN 1172	0.60	450660	451660
		0.70	450670	451670



Please indicate roof pitch when ordering gutter inlet sheet or eaves panel!

### Profile filler - rear side

Material	Application	Dimension (mm)	Article no.
High-density polyethylene	for rear side of profiled sheet	30 x 930	459000



### Eaves angle maximum length 3.00 m

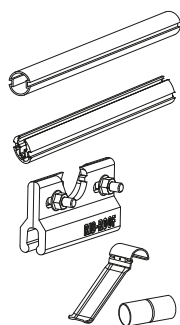
Material	Surface	Dimension (mm)	Packaging unit	Article no.
Aluminium	mill finish (for RIB-ROOF 465 technically not necessary)	40 x 20 x 2	3 m	451020



# RIB-ROOF 465

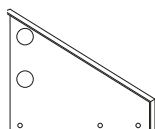
## ACCESSORIES

### Snow guard and ice retaining system



Description	Material/technical details	Thickness of material (mm)	Packaging unit	Article no.
Snow guard pipe Ø 32 mm with groove*	aluminium	2.00	3.0 rm	470310
Solar pipe Ø 32 mm with groove*	suitable module clamps for fastening of PV modules are available upon request aluminium	2.00	6.0 rm	470360
Snow guard/solar pipe bracket*	(2.15 pcs/m) construction length 120 mm for snow guard pipe Ø 32 mm with groove aluminium			471331
Ice stopper	(4.3 pcs/m) construction width 50 mm for locking aluminium		25	477331
Pipe connector	for snow guard pipe/solar pipe outside aluminium			477710

### Snow guard raising element

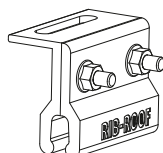


Description	Material	Thickness of material (mm)	Article no.
Snow guard raising element	for stable raising of the snow guard row, e.g. for photovoltaic systems by about 200 mm aluminium	3.00	472330

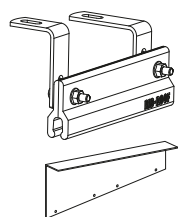
A finished snow guard raising element holds three snow guard pipes and needs two snow guard brackets.  
When refitting an old building or raising a new building please order accordingly.  
The distances of the snow guard row according to our manual guide can be increased by 50 %.

### Solar bracket / Bracket for lightning protection

construction length 80 mm | aluminium uncoated | usable as bracket for lightning protection according to DIN EN 50164-1, test category N



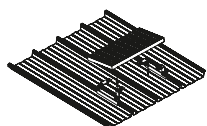
Description	Material	Article no.
Solar bracket* / lightning protection	preassembled with angles for solar modules aluminium	475331



**Tread support** construction length 210 mm | standard for roof pitches up to 15° | for higher pitches on request

Description	Material	Article no.
Tread support*	adjustable for roof pitches of 0° up to 15° aluminium	476331
Angle bracket	conical, for roof pitches < 30° aluminium	476710

### Walkways roof pitches 0° – 30°



Description	Material/technical details	Article no.
Walkway	with anti-skid protection, incl. mounting accessories steel sheet galvanized, 250 x 600 mm steel sheet galvanized, 250 x L to 3000 mm	476100-600 476100----

Walkways also available as single steps, longitudinal walkways with balustrates, execution in aluminium / aluminium die casting and steel galvanized / aluminium die casting on request



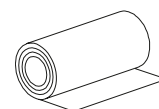
Please use the order form for flashings:  
[order-form-flashings.zambelli.com](http://order-form-flashings.zambelli.com)

\* authorisation approval Z-14.4-774

# FLASHINGS / ACCESSORIES

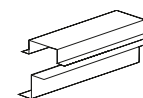
**Coil material** Aluminium – standard width 1250 mm, Steel – standard width 1334 mm (other coil widths on request) | maximum coil length 30 m

Material	Surface corrosion protection	Thickness of material (mm)	Weight (kg/m <sup>2</sup> )	Article no.
Steel	alu-zinc alloy	0.63	5.09	461163
	galvanized and colour-coated, top side 25 µm polyester coated, rear side protective coating	0.63	5.05	461263
		1.00	7.88	461210
	galvanized and colour-coated, top side 25 µm PVDF coating, rear side protective coating	0.63	5.05	461363
Aluminium	mill finish or mill finish and stucco-embossed	0.70	1.89	461370
		0.80	2.16	461380
		0.90	2.43	461390
		1.00	2.70	461310
	colour-coated, top side 25 µm polyester coated, rear side protective coat	0.70	2.02	461470
		0.80	2.29	461480
		0.90	2.56	461490
		1.00	2.83	461410
Titanium zinc Zinc notation LME	mill finish DIN EN 988 (DIN EN 988 pre-weathered also available)	0.70	5.04	461570
		0.80	5.76	461580
Copper MK notation	mill finish DIN EN 1172	0.60	5.37	461660
		0.70	6.27	461671



## Non-standard flashings

	Technical details	Article no.
Non-standard flashings	max. length 6.00 m (production according to drawings)	950604
Hat-profiles	e. g. steel 1.50 mm cutt 50/120/75/120/50 mm, heigh 120 mm	
Z-profiles	e. g. steel 1.50 mm cutt 65/120/65 mm, heigh 120 mm	
Calculation	material price consists of price for required cut of the coil material plus cutting costs costs for each edge (1 folding corresponds to 2 edges)	

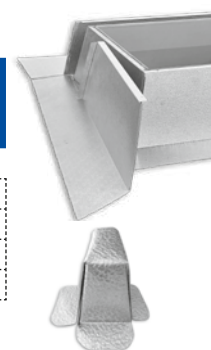


Flashings of less than 1000 mm will be invoiced per meter!

**Edging as plug-in system** construction height 300 mm | for dome lights etc. | cover caps, handmade, for closing of profiled sheet seams

Material	Dimension	for welding/sealing Article no.	Material	Dimension	for welding/sealing Article no.
aluminium mill finish	1.00 x 1.00 m	485310	aluminium colour-coated	1.00 x 1.00 m	485410
	1.20 x 1.20 m	485312		1.20 x 1.20 m	485412
	1.50 x 1.50 m	485315		1.50 x 1.50 m	485415
	Cover cap	485300 / 585300		Cover cap	485400 / 585400

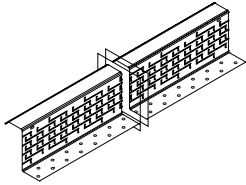
Please indicate roof pitch when ordering the edging as plug-in system! Not available for thermally insulated structures!



RIB-ROOF 465

# ACCESSORIES

## Thermo-Z Spacer profile



Description	Profile height (mm)	Material	Material thickness (mm)	Art.-Nr.
Thermo-Z spacer profile	for thermal insulation height 120 mm, Z-type perforated area, height 93 mm	Steel S320	2.00	407120-120
	for thermal insulation height 140 mm, Z-type perforated area, height 115 mm	Steel S320	2.00	407120-140
	for thermal insulation height 160 mm, Z-type perforated area, height 126 mm	Steel S320	2.00	407120-160
	for thermal insulation height 180 mm, Z-type perforated area, height 137 mm	Steel S320	2.00	407120-180
	for thermal insulation height 200 mm, Z-type perforated area, height 159 mm	Steel S320	2.00	407120-200
	for thermal insulation height 220 mm, Z-type perforated area, height 181 mm	Steel S320	2.00	407120-220
	for thermal insulation height 240 mm, Z-type perforated area, height 181 mm	Steel S320	2.00	407120-240

Other construction heights and variants up to 300 mm are available on request.

## Wooden screws self-drilling, full thread, from 80 mm partial thread, according to our European Technical Authorisation



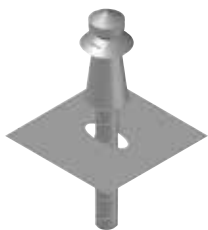
Description	Usage	Material	Dimension (mm)	Recess	Packaging unit	Article no.
Panhead full thread	for fastening of sliding clips on timber boarding, at least 24 mm	stainless steel	5.0 x 30	Torx T20	200	941503
	for fastening of sliding clips on wooden lathing, at least 60 x 40 mm	steel	5.0 x 40		200	941504
Countersunk screw full or partial thread	for fastening on wooden lathing, wooden substructure	stainless steel	5.0 x 70	Torx T20	100	941507
			5.0 x L to 120			9415
Countersunk screw partial thread	for fastening on wooden lathing, wooden substructure	stainless steel	6.0 x 80	Torx T30	100	941608
			6.0 x L to 200			9416

## Drilling screws approved by building authorities and according to our European Technical Authorisation



Description	Usage	Material	Dimension (mm)	Recess	Packaging unit	Article no.
Flat headed screw	for fastening of sliding clips on Z-profiles, light metal up to 1.3 mm	stainless steel	5.5 x 25	Torx T25	500	941701
Round-head screw without washers	for fastening of sliding clips on Z-profiles, steel substructure 1.5 to 6.0 mm	stainless steel	5.5 x 25	Torx T25	1000	941702
	for fastening of sliding clips on Z-profiles, steel substructure 4.0 to 12.0 mm		5.5 x 40		500	941704
Hexagonal head screw with washers	for fastening Z-profiles on Z-profiles or liners, component II up to 2.5 mm	stainless steel	5.5 x 25	AF 8	500	941703
Countersunk screw	for fastening of wooden lathing on trapezoidal profiles, steel substructure 0.75 to 1.50 mm	stainless steel	6.0 x 60	Torx T25	250	941706
			6.0 x L to 200		150	9417
Hexagonal head screw without washers	for fastening of pressure-distributing stripes (penetrating rigid insulation boards) on liner, steel substructure 0.63 to 1.5 mm	stainless steel	6.5 x 50	AF 8	250	941805
			6.5 x L 120-200		100	9418
			6.5 x L 220-300		50	9418

## Sanitarian vent conical construction height 300 mm, available for various roof pitches, Air pipe 1000 mm, Covering cap, Rain collar, Swan neck downpipe 80 mm with suitable reducer 100/80 mm, upon request



Material/Description	Designs diameter (mm)	Sanitarian vent conical for welding/sealing Art.no.	Air pipe with flange surface Article no.	Covering cap Article no.	Rain collar Article no.
Aluminium mill-finish	100	483310	487310		
	125	483312	487312		
	150	483315	487315		
Aluminium colour-coated	100	483410			
	125	483412			
	150	483415			
Stainless steel mill-finish	100			484710	484710-RK
	125			484712	484712-RK
	150			484715	484715-RK
Dicht 7	Universal adhesive and sealant, 310 ml cartridge, Shore hardness 60, solvent-free, moisture resistant, paintable, odorless, colour: gray			100000	

## Structured separation layer (without protective sheet) approx. 8 mm

Material	Sizes and weight Technical data	Thickness of material (mm)	Article no.
Structured separation layer (without protective sheet)	for acoustic roof RIB-ROOF, 25 m x 1.40 m per roll, roll weight approx. 11.5 kg	8 mm	944008

Detailed data sheet on request

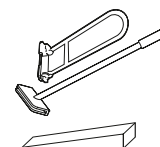
## Blind rivet / Cup blind rivet capsule: aluminium, spike: stainless steel A2

Description	Usage	Technical details	Packaging unit	Article no.
Blind rivet	for riveting of closures on profiled sheet seams, with big setting head 16 mm	4.8 x 10.0 mm	250	941310
Cup blind rivet	for riveting of fixed points, with flat round head 9.5 mm	4.8 x 8.0 mm	500	941308



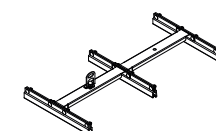
## Accessories for installation and tools

Description	Usage	Material	Article no. (RIB-ROOF 465)	Article no. (RIB-ROOF Speed 500)	Article no. (RIB-ROOF Evolution)
Tool for folding up / folding down of profiled sheets	combined for ridge and eaves side	steel sheet galvanized and lacquered	490100	590100	690100
Spreader beam	for lifting	steel sheet galvanized and lacquered	950005	950005	950005
Cutting tool	for angular cuttings		950610	950610	950610
Wedge	for opening profiled sheets	plastic	-	596010	-



## Fall arrest system / personal safety system single anchor point

Description	Technical details	Article no. (RIB-ROOF 465)	Article no. (RIB-ROOF Speed 500)	Article no. (RIB-ROOF Evolution)
Single anchor point	single anchor point, perforation free assembly	497701	597701	697701
Safety harness	personal safety equipment, movable guide 10 m rope	497710	497710	497710
Storage cupboard	steel sheet, dimension 600 x 400 x 250 mm	497720	497720	497720



As cable system with continuously traversable intermediate brackets (slight change of direction due to corners bypasses); available upon request

\* Authorisation approval Z-14.9-802

## Green roof

Description	Technical details	Article no.
Green Roof System Urbanscape	for RIB-ROOF Speed 500 and Evolution width 500mm, Height of system: approx. 100 mm dry weight of whole system: approx. 22 kg/sqm waterlogged: approx. 77 kg/sqm	598900



# GENERAL TERMS AND CONDITIONS

## VALID FROM 1ST NOVEMBER 2013

### 1. Incorporation of conditions/Written form

- 1.1 These general terms and conditions principally apply for business transactions between us and our customers in advance. The same shall apply for future orders.
- 1.2 Conditions in order documents of our customers diverging from, supplementary or adverse to our terms and conditions are not admitted even if they were not expressly rejected. In particular, this applies when we render the service without reservation, in spite of conflicting conditions.
- 1.3 Diverging agreements within the meaning of number 1.2 shall only be valid in a particular case, when expressly confirmed by us in writing. The validity of the remaining general terms and conditions shall remain unaffected.
- 1.4 Individual agreements made with the customer in a particular case (including subsidiary agreements, reservations, amendments and supplements) shall precede these general terms and conditions in any case. A written contract and our written agreement respectively shall be authoritative for the contents of such agreements. Changes of this written form clause shall also be made in writing.

### 2. Prices and conditions

- 2.1 Prices of the price list applicable at the time of contract conclusion shall be valid. Previous lists become invalid upon publication of a new price list.
- 2.2 All prices are in general free site without unloading for the countries Germany and Austria (unless otherwise indicated) and do not include packing and VAT. Free site deliveries are valid only from an order value of € 5000 with straight profiled sheets with a length up to 14.6 m. Freight for curved profile sheets are offered on inquiry.
- 2.3 In principle, they are based on commodity prices and indication of quantities existing at the contract conclusion. If not all information required for a material order with our subcontractors (e.g. measures, colour, etc.) was available at the contract conclusion, the customer shall file this information subsequently as soon as possible. If total costs increased by at least 5 percent between contract conclusion and performance of cooperation acts by the customer, we shall be entitled to perform a corresponding price increase to compensate the increase in costs.
- 2.4 For reduced quantities, a surcharge in the amount of € 1.50 is charged per item, e.g. items ordered below the minimum purchase volumes stated.
- 2.5 A handling fee is charged for small orders below € 250 in the amount of € 15.
- 2.6 There are following additional charges: € 25 for orders below 50 m<sup>2</sup>; additional charge of € 5,- per sheet for curved sheets with a radius of up to 10 m; short length additional charge of € 3 per sheet for RIB-ROOF Speed 500 profile sheets below 2.0 m; € 40,- for orders of 5 - 9 profiled sheets with a different individual length; € 75 for orders of 10 - 19 profiled sheets with a different individual length; additional charge for more than 20 profiled sheets with a different length upon request.

### 3. Delivery/Default in delivery/Security

- 3.1 Delivery is principally made on the most favourable freight route. Express delivery is only made on explicit request by the customer. This also applies to any other shipment type expressly requested by the customer.
- 3.2 Delivery is principally made without unloading at the confirmed destination point within Germany and Austria.
- 3.3 Partial deliveries shall be admissible.
- 3.4 Delivery time commences when the customer performed his cooperation acts according to 2.3. A date of delivery determined calendar-based is postponed by the same period than performance of the cooperation acts by the customer is delayed.
- 3.5 For preservation of the date of delivery, it shall be sufficient that the goods left our plant before expiration of the delivery time or we have made the goods available and informed the customer on our readiness for dispatch.
- 3.6 We may make the execution of an order contingent on an advance payment or payment of invoices still outstanding from previous orders. The customer shall be obliged to deliver a contract performance guarantee of a big bank licensed for business operation in the EU in the amount of the payment amount still outstanding or any other security within the meaning of section 232 subsection 1 BGB - Civil Code, before the start of delivery and/or installation of our goods. We shall have a right to refuse performance until delivery of this guarantee.
- 3.7 Should circumstances arise after the contract conclusion beyond our control or the control of a subcontractor and unforeseen, e.g. raw material and energy shortage or breakdown of machines required for the production, industrial action, act of god or circumstances for which we are not responsible and significantly impede delivery, we will inform the customer immediately and, at the same time, communicate the estimated new delivery time. Should delivery still not be possible within the new period, we shall be entitled to withdraw from the contract in whole or in part. We will reimburse any consideration already made by the customer immediately. Our statutory right to give notice and right of rescission as well as statutory provisions regarding the winding up of the contract when the obligation to perform the contract is excluded (e.g. impossibility or unconscionability of the performance and/or subsequent performance) shall remain unaffected. The right of rescission and right to give notice of the customer shall also remain unaffected.
- 3.8 Installation plans and parts lists are prepared and sent on the basis of documents provided by our customers. Should we not receive any alterations within 48 hours after receipt by our customer, we suppose that our customer gives its consent.
- 3.9 You can find our conditions for construction work (profiling/curving) on [www.zambelli.de/en/conditions-for-rollforming.html](http://www.zambelli.de/en/conditions-for-rollforming.html)
- 3.10 The choice of the most suitable packaging material is the subject of Zambelli RIB-ROOF GmbH. The Zambelli standard packaging for the profiled sheets consists of lashed, packed with polystyrene, bundles as well as for the accessories or pallets. The costs for any special packaging, wooden boxes and special crates are to be borne by the customer. Zambelli RIB-ROOF GmbH & Co. KG recommends the use of special packaging, especially for export transports by air, sea or road, in order to avoid any damage during whole transport/shipment procedure.

### 4. Default of acceptance

- 4.1 The customer has failed to accept delivery when he refuses acceptance of the faultless goods on delivery. Should he expressly declare not to accept the delivery already before this time, delivery shall be dispensable and the customer has failed to accept delivery after our verbal offer. Default in acceptance shall oblige the customer to reimburse any cost of storage. These costs are assessed with at least 0.5 percent of the net order amount for each month commenced, however, no more than 5 percent of the net order amount. The customer shall be entitled to furnish proof that we did not incur any damage or impairment due to the default in acceptance or the amount is considerably below this lump sum.
- 4.2 Furthermore, we shall be entitled in the event of default in acceptance to withdraw from the contract on the conditions of paragraph 323 BGB (Civil Code) or to claim damages due to non-performance on the conditions of sections 280 subsection 1, 3, 281 BGB (Civil Code). We may request 20 percent of the order price including VAT as damages due to non-performance should the customer not produce any proof that we did not incur any or minor damage. We reserve to assert a higher proofed damage for customized goods, in particular.

### 5. Shipment, Passage of risk

- 5.1 Our plant is the place of performance for payment and performance.
- 5.2 Should the customer goods be shipped to another place (not our plant) upon the request of the customer, risk of accidental perishing or deterioration of the goods shall pass to the customer on delivery to the forwarding agent, carrier or any other person or institution appointed to perform delivery. The provisions of paragraph 447 BGB (Civil Code) shall also apply if shipment is made with our means of transport or employees as well as regardless of who bears freight. In this case, paragraph 278 BGB (Civil Code) shall apply with regard to our employees.
- 5.3 Transport insurance is only made after separate agreement and for the account of the customer.
- 5.4 Notwithstanding the provisions of 5.2, risk shall pass to the customer after we delivered the goods to the customer or the customer has failed to accept delivery, in accordance with the provisions of 4.1

### 6. Customer's duty of evidence for intra-community deliveries

- 6.1 According to §§ 17a-17c UStDV, the supplier is for every tax-free intra-community delivery obliged to request the reception evidence in the form of a Certificate of Entry or in specific cases in the form of an alternative proof from the customer.
- 6.2 In case that the supplier or the customer commissions an external carrier to transport the consignment, the CMR is accepted as alternative proof which may replace the Certificate of Entry, provided that field 24 is filled in correctly and completely.
- 6.3 In case that the customer transports the consignment with his own vehicle, only the Certificate of Entry may prove the intra-community delivery.
- 6.4 In case that the consignment is transported by parcel service or break bulk cargo, the supplier retrieves the proof directly from the respective service contractor.
- 6.5 For all deliveries according to 6.2 and 6.3, the customer is obliged to furnish the proof within a narrow time frame. The respective proof has to be transmitted electronically to [zirconification@zambelli.de](mailto:zirconification@zambelli.de).
- 6.6 Non-fulfilment of this duty of evidence results in subsequent billing of the German VAT by the supplier as the requirement for tax exemption for intra-community deliveries according to § 6a sections 1 and 3 UStG is not fulfilled.

### 7. Warranty

- 7.1 Agreements as to quality shall only be binding when expressly made with the customer in writing. In particular, all information in lists or offers regarding measures, weights and illustrations was only roughly established and thus is not binding at any time.
- 7.2 The actual delivery may deviate from any sample within customary tolerances. Such deviations do not constitute any defect in any way. Item 1.4 shall remain unaffected. Minor chromatic aberrations and natural surface deviations can arise when using different batches, but do not represent any defects.
- 7.3 Customary length variations within the meaning of 6.2 amount to +/- 3.0% of the theoretic length of the profiled sheets, no more than 20mm analogous RAL RG 617, edge variations depend on DIN (German Industrial Standard) DIN 6930 / 6935 and admitted measure and form deviations depend on DIN (German Industrial Standard) 59232. Various deviations in the construction work can occur when curving with machines (smooth curving) of the profiled sheets due to material- and production technical conditions which can cause optical impairments by material warpage. Such deviations in measure and shape do not present a manufacturing defect.
- 7.4 The customer shall inspect the goods immediately. Obvious defects of any type and/or delivery of a type or quantity of goods other than ordered shall be noticed immediately on acceptance of the delivery and shall be noted down in a delivery record to be prepared by the customer. Other defects arising within a proper inspection of any type, without delivery of a non-obvious type or quantity of goods other than ordered shall be noticed in writing immediately, however, within 7 days as of the date of delivery. Delivery shall be considered approved with regard to a notice not in due form and time. Hidden defects which are also not discovered within a proper inspection shall be noticed in writing within 1 year from the date of delivery.
- 7.5 Until clarification of the complaint, goods complained about shall not be further processed. We shall be given the opportunity to inspect defects noticed on-site.
- 7.6 We remedy defects or deliver subsequently at our option. Should a subsequent performance fail within an appropriate period, the customer (at his option) may reduce, withdraw from the contract or claim damages in the event of fault. Should the customer withdraw from the contract, he shall not be entitled to any other damages than performance due to the defect. Claims for damages by the customer shall only exist in accordance with item 9 and shall otherwise be excluded.
- 7.7 We shall be entitled to make a subsequent performance due conditional on the fact that the customer pays the purchase price due. However, the customer shall be entitled to retain an appropriate part of the purchase price in relation to the defect.
- 7.8 The warranty period is 12 months from delivery. However, if goods concern a construction or another object used in accordance with its usual type of use and caused the defectiveness of the construction (building material), the limitation period is 5 years according to the statutory regulation, paragraph 438 subsection 1 number 2 BGB (Civil Code). Statutory special regulations on claims for return in rem of third parties (paragraph 438 subsection 1 number 1 BGB - Civil Code), fraudulent intent (paragraph 438 subsection 3 BGB - Civil Code) and claims in recourse to the supplier of the final delivery to a consumer (paragraph 479 subsection 3 BGB - Civil Code) shall also remain unaffected.
- 7.9 The foregoing limitation periods of the purchase right shall also apply to contractual and extra-contractual claims for damages by the customer based on a defect of the goods, unless application of the standard statutory limitation period (paragraph 195, 199 BGB - Civil Code) would result in a shorter limitation period in the individual case. Limitation periods of the Product Liability Act shall remain unaffected in any event. Statutory limitation periods shall apply for other claims for damages by the customer.
- 7.10 Please observe that liability is excluded in case our system-own components are not used together with our RIB-ROOF profiled sheets. An imitation of our system-own components is only permitted by our agreement.

### 8. Terms of payment/Delay in payment

- 8.1 Unless otherwise agreed, our invoices are payable without deduction after receipt immediately.
- 8.2 Counterclaims including warranty claims of the customer do not entitle to a set-off or retention, unless a counterclaim exists which has become res judicata.
- 8.3 The customer is in default should he not make payments due within 30 days after receipt of the invoice or similar payment schedule. The customer is also in default without a reminder should it be agreed that the purchase price shall be paid on a date determined calendar-based and the customer does not perform until this date at the latest. Notwithstanding, it shall be left at our discretion to remind the customer when our purchase price claim is due. In this event, the customer is in default with the reminder, unless delivery is not made due to a circumstance for which he is not responsible.
- 8.4 Should the customer be in default with the payment, we shall be entitled to demand interest in the amount of 8 percent above the base interest rate as flat-rate damages from the time when default commences. Damages shall be assessed at a

lower value should the customer prove a lower damage. The proof of a higher damage by Zambelli shall be admissible.

- 8.5 Should the customer not pay the agreed price on the due date and no delay in payment exists, we shall have a claim for default interest in the amount of 5 percent p.a. (paragraph 352, 353 HGB - Commercial Code).
- 8.6 We reserve assertion of another or higher damage. Should the customer not make payments due, we shall be entitled to withdraw immediately, in accordance with section 323 subsection 1 BGB (Civil Code). We shall be entitled to withdraw immediately, should the customer suspend payments, files a petition to commence insolvency proceedings or such proceedings are commenced with respect to the assets of the customer.
- 8.7 Payments by bill or cheque are accepted on account of performance subject to payment. Acceptance of bills is only made after a corresponding agreement should the corresponding costs for negotiation of a bill are fully paid in cash and this concerns eligible for rediscount bills.

### 9. Reservation of title

- 9.1 Goods delivered shall remain our property until performance of all current and future claims from business relations with the customer (reserved goods).
- 9.2 The customer shall be obliged to store and mark reserved goods separately.
- 9.3 Processing or transformation of reserved goods is performed by the customer on our behalf without any obligations arising for us. Should the customer combine, mix or process our reserved goods with other goods we shall be entitled to co-ownership on a pro rata basis of the goods created. Value of our co-ownership depends on the proportion of the invoice value of our reserved goods to the market value of the goods created by combining, mixing or processing. These goods shall be considered in this extent as reserved goods within the meaning of these conditions.
- 9.4 Sale of reserved goods shall be admissible in the ordinary course of business should the customer guarantee our extended reservation of title (assignment of a claim in accordance with 8.5). Other disposals and pledging and transfer by way of security, in particular, shall not be admissible.
- 9.5 Hereby, the customer assigns to us in advance any claims with regard to reserved goods due from resale or any other legal ground in the amount of claims to be secured. We hereby accept the assignment. Should the customer contribute the above-named claims to current account relations, the current account claims are hereby assigned to us in full. After balancing, the balance supersedes which is considered assigned up to the amount of the original current account claims. This shall apply correspondingly for the final balance in the event of termination of the current account relations.
- 9.6 The customer shall only be entitled to collection of assigned claims in the ordinary course of business and revocable. Upon our request, he shall notify the debtor of the assignment and we shall also have a right of notification should the customer be in default with the payment of a secured claim and the customer was previously notified of the disclosure.
- 9.7 The authorization of the customer to dispose of reserved goods as well as processing, combining and mixing and, in addition, to collect claims assigned shall become extinct in the event of non-compliance with terms of payment, unauthorized disposal, significant deterioration of the financial position of the customer, bill or cheque protest and insolvency proceedings filed against the customer. We shall be entitled in these events to take possession of reserved goods after a statement of withdrawal, enter upon the plant of the customer for this purpose, obtain useful information as well as inspect his books.
- 9.8 We undertake to release securities due to us in accordance with the foregoing provisions at our option and upon request by the customer to the extent that its value exceeds the claims to be secured by more than 10 percent.
- 9.9 The customer shall notify us immediately about impending or executed attachments by third parties of reserved goods or claims assigned.
- 9.10 Unless registration and/or fulfilment of other requirements is a precondition for the validity of the reservation of title, the customer shall be obliged to inform us about this and, at his expense, to take any actions required for this immediately and to give all notifications required. Should the authoritative legal system not permit the agreement on a reservation of title, the customer shall provide appropriate other securities when using a credit on goods.

### 10. General limitations on liability

- 10.1 We shall be liable in accordance with statutory provisions, should the customer asserts claims for damages based on intent, gross negligence including intent or gross negligence of our representatives or vicarious agents. Should we not be accused of intentional contract violation, liability for damages shall be limited to the foreseeable and typically occurring damage.
- 10.2 We shall be liable in accordance with statutory provisions, should we commit an essential breach of contract intentionally. Liability for damages in this event shall also be limited to the foreseeable and typically occurring damage.
- 10.3 Liability for intentional injury to life, body or health shall remain unaffected at any time. This shall also apply to the obligatory liability according to the Product Liability Act.
- 10.4 Unless not agreed otherwise above, liability shall be excluded.
- 10.5 Any additional liability for damages shall be excluded - without taking the legal nature of claims asserted into consideration. In particular, this shall apply for claims for damages from negligence on contract conclusion, other failures to comply with one's duty or tort claims for compensation of property damage according to paragraph 823 BGB (Civil Code).
- 10.6 This limitation shall also apply should the customer not demand performance but a replacement of useless expenses instead of a claim for reparation of the damage.

### 11. Violation of third party's rights

Should deliveries be made according to drawings or specifications by the customer and this infringes any third party's rights and property rights, in particular, the customer shall indemnify us against any claims arising herefrom upon initial request, unless we are participated in the accrual of the claim due to intent or gross negligence. In this case - notwithstanding the provisions of 9. - paragraph 830, 840, 254 BGB (Civil Code) shall apply for the damage apportionment between us and the customer.

### 12. Place of performance, Jurisdiction, Applicable law

- 12.1 Grafenau is the place of performance for all obligations from the contractual relations.
- 12.2 The court competent for Grafenau is the jurisdiction for all disputes arising from the contractual relations should the customer be a merchant who has been entered in the commercial register as a merchant, legal person under public law or separate estate. However, we shall be entitled to bring an action against the customer also at the court competent for his seat.
- 12.3 Substantive law of the Federal Republic of Germany shall apply exclusively to all legal relations between us and the customer under the exclusion of any international and supranational (contractual) legal system and the UN Convention on Contracts for the International Sale of Goods (CISG).

### 13. Data storage

Data is stored in accordance with the Data Protection Act.



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