

weinor

Premium quality
Made in Germany

Focus Open
Silver 2012



Zenara

Zenara LED | Zenara Valance Plus | Zenara LED Valance Plus



Contents

Product highlights	4	Automatic weather control	15
Awning fabrics	9	and accessories	15
Frame colours	9	Planning/measuring	16
Zenara LED version	10	Wall connection	17
Zenara Valance Plus option	12	Cross-sections	18
BiConnect remote control	14	Installation options	19
		Extraction forces	23

weinor Zenara – awning design at it's beautiful best



The avantgarde shape of the weinor Zenara makes it the designer awning among all awnings and shades. On modern houses, this cassette awning engages in harmonious dialogue with the facade, while on older buildings it provides a tantalising contrast. Since even the larger-sized versions measuring up to 6.5 m in width need just two wall connections, the weinor Zenara merges beautifully with the house to form a single whole. With its numerous innovations, the Zenara is also a true avantgardist in engineering terms.

weinor Zenara highlights



47 frame colours
and 9 trend colours



10-year warranty on
LongLife arm



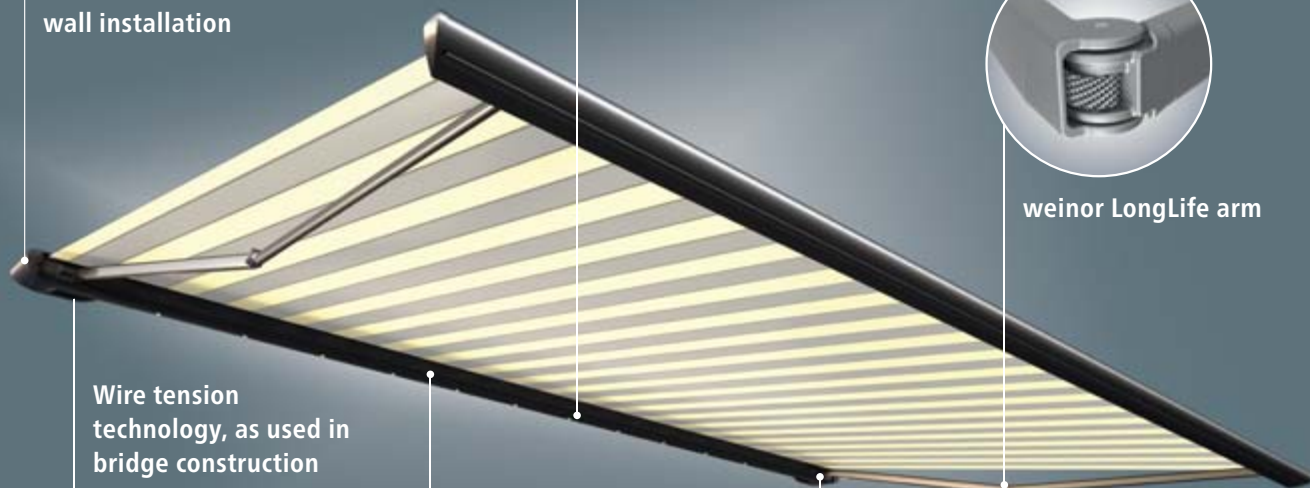
Innovative
wall installation



Fully concealed
technology



weinor LongLife arm



Wire tension
technology, as used in
bridge construction



Variety of options
for every need

Zenara and
Zenara LED p.10



Ingenious tilting wind
lock mechanism



Product benefits in detail

Technology and design at its best: the highlights of the weinor Zenara



Innovative wall installation – for a new, purist design

The innovative, patent-pending technology housed in the weinor Zenara forms the backbone to its architectural shape:

- available up to a width of 6.5 m with just two installation brackets
- new, purist look
- sturdy housing means less profile sag
- widths from 5.5 m supplied with wire tensioning technology as used in suspension bridge construction



Completely concealed technology – for a seamless look

All of the technical components are concealed in the housing to save space. The advantage:

- no visible brackets, fixings or cover caps
- The user-friendly inspection flap makes for
- ready access to the BiConnect components
- easy maintenance of the electronic parts



weinor LongLife Arm – durable, quiet operation

The new arm features an exceptionally robust high-tech belt.

- tested to more than 100,000 cycles
- extremely quiet operation
- no maintenance required
- die-forged aluminium in joint – light but highly robust
- excellent fabric positioning
- 10-year warranty



Ingenious wind lock tilting mechanism – for precise adjustment

weinor's tilting mechanism technology ensures the cassette closes very precisely.

- perfect spacing of fabric to arm
- awning can be set between 5° and 40° pitch
- wind lock safety device
- mechanical parts elegantly concealed



Wire tensioning technology, as used in bridge construction – only two fixings required

Unlike conventional awnings, the Zenara only needs to be connected to the wall at two points, even the larger models.

- only two installation points
- same applies to larger models, e.g. 5.5 m and above. The innovative wire tensioning technology used in bridge construction makes this possible



- standard
- optional
- unavailable

weinor Zenara versions

	Zenara	Zenara LED
Technology		
Max. width	650 cm	650 cm
Max. projection	400 cm	400 cm
Housing size (W x H)	251 x 160 mm	251 x 165 mm
Coupled systems	—	—
Motor drive	● as standard; no crank	● as standard; no crank
Awning pitch	5° to 40°	5° to 40°
Installation options	can be installed on walls, ceilings and rafters	
LED lighting (separate spotlights)	—	● integrated into the awning's cassette
Valance Plus option		
Max. width	500 cm/600 cm	500 cm/600 cm
Max. projection	350 cm/300 cm	350 cm/300 cm
Housing size (W x H)	314 x 160 mm	314 x 165 mm
Motor drive	● as standard; no crank	● as standard; no crank
Awning inclination	5° to 20°	5° to 20°
Projection of Valance Plus (H)	100 cm, 150 cm, 210 cm	100 cm, 150 cm, 210 cm
Design		
47 standard frame colours	●	●
Over 150 other RAL colours	○	○
9 trend colours	●	●
Other textured colours	○	○
weinor fabric collection	●	●
Valance Plus fabrics	For special fabrics for vertical awnings, see p. 12	
Accessories		
Tempura heating system	○ fastener with universal bracket	
Controls		
Remote control	see p. 14	
No remote	fully wired and ready to plug in	fully wired and ready to plug in
Quality		
Tested up to	wind Force 5 on the Beaufort scale and wind resistance class 2 according to DIN 13561	







Fabrics – attractive, brilliant long-lasting colours

For an attractive awning you need a high-quality fabric. The 'colours by weinor®' collections provide a wide selection.

- solution-dyed to make them colour-fast
- stay beautiful thanks to dirt- and water-repellant nano-coating
- optional: wide range of collections by other manufacturers



Fabric collections
155 patterns

- high-quality acrylic
 - proven for decades
 - fabric width: 120 cm/240 cm
- innovative polyester quality
 - high-stretch with memory effect®
 - fabric width: 120 cm



Air-permeable acrylic
fabrics, 5 patterns

- high-quality perforated acrylic
- translucent, breathable climate-control fabric for Valance Plus
- fabric width: 120 cm/240 cm



High-tech climate-control fabrics
10 patterns

- translucent, breathable climate-control fabric for Valance Plus
- fabric width: 177 cm (Soltis® 86, 92)
- extra-wide: 267 cm (Soltis® 86, 92, 93)



Wide range of frame colours – abundance of choices

weinor coats all of its products in its own workshop. This ensures that they have the best-possible colour tonality and identical gloss levels.

- 47 standard RAL frame colours, silk gloss (gloss level $70 \pm 5\%$ when measured at a 60° angle)
- 9 scratchproof, resistant trend colours with a textured look
- over 150 special RAL colours

47 standard frame colours

RAL 1002 Sandy yellow	RAL 1003 Signal yellow	RAL 1014 Ivory	RAL 1015 Light ivory	RAL 1023 Traffic yellow	RAL 1034 Pastel yellow	RAL 2000 Yellow orange	RAL 2002 Vermilion	RAL 2011 Deep orange
RAL 3002 Carmine red	RAL 3004 Magenta red	RAL 3007 Black red	RAL 4005 Blue lilac	RAL 4006 Traffic purple	RAL 5005 Signal blue	RAL 5009 Azure blue	RAL 5014 Pigeon blue	RAL 5021 Water blue
RAL 5022 Night blue	RAL 5024 Pastel blue	RAL 6005 Moss green	RAL 6009 Fir green	RAL 6011 Reseda green	RAL 6012 Black green	RAL 7015 Slate grey	RAL 7016 Anthracite grey	RAL 7021 Black grey
RAL 7030 Stone grey	RAL 7032 Pebble grey	RAL 7035 Light grey	RAL 7039 Quartz grey	RAL 7040 Window grey	weinor 7319 weinor grey	RAL 8001 Ochre brown	RAL 8003 Clay brown	RAL 8014 Sepia brown
RAL 8016 Mahogany brown	RAL 8017 Chocolate brown	RAL 8019 Grey brown	RAL 8022 Black brown	weinor 8077 weinor dark brown	RAL 9001 Cream	RAL 9005 Jet black	RAL 9006 White aluminium	RAL 9007 Grey aluminium
RAL 9010 Pure white	RAL 9016 Traffic white							

9 trend colours

WT 29/10797 Approx. RAL 9010	WT 29/50704 Approx. RAL 6009 metallic	WT 29/60740 Chestnut 04 metallic	WT 29/70786 Sparkling iron effect	WT 29/71289 Approx. RAL 7016	WT 29/80077 Approx. DB 703 metallic	WT 29/80081 Iron glimmer effect P7	WT 29/90146 Approx. RAL 9006 metallic	WT 29/90147 Approx. RAL 9007 metallic

weinor is an eco-friendly company. To ensure compliance with high environmental standards, manufacturing processes and materials undergo regular testing by experts.

As a result of the ban on the use of heavy metals in powder coatings, paint manufacturers can no longer guarantee colour stability despite making every effort to do so. It therefore cannot be excluded that colours in general, and Fire Red (RAL 3000) in particular, may fade with time. For technical reasons, the colours may appear significantly different when printed.



LED lighting – 30,000 hours of lighting require minimal energy consumption

The select LED components are patent-pending and represent the very best in weinor quality:

- integrated into the cassette
- atmospheric light thanks to special glass lenses
- lighting remains on even when awning is retracted
- extremely energy-efficient
- lifetime of 30,000 hours
- dim to any level with the BiConnect remote control
- easy to service: simply replace individual LED lights without un-installing the awning

Awning width	Number of separate LED spotlights
228 – 250 cm	3
251 – 300 cm	4
301 – 350 cm	5
351 – 400 cm	6
401 – 450 cm	7

Awning width	Number of separate LED spotlights
451 – 500 cm	8
501 – 550 cm	9
551 – 600 cm	10
601 – 650 cm	11





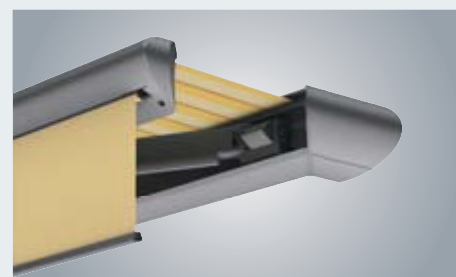


Valance Plus – more privacy thanks to vertical privacy and sun screen (optional)

The motorised vertical awning fits elegantly into the awning's drop profile.

- anti-glare and privacy screen up to a maximum valance height of 210 cm

- opens to any desired length
- awning can be set to any angle from 5° to 20°
- Valance Plus cannot be retrofitted



Zenara Valance Plus – closed and with partially open Valance Plus

Maximum awning size for Valance Plus

Width	500 cm	Projection	350 cm
Width	600 cm	Projection	300 cm

Available fabrics for the Valance Plus

	Soltis® 86, 92	Soltis® 86, 92, 93	Acrylic			Perluca		WeiTex polyester	
Fabric width	Single colour 177 cm	Single colour 267 cm	Stripes 120 cm	Single colour 120 cm	Single colour 240 cm	Single colour 120 cm	Single colour 240 cm	Stripes 120 cm	Single colour 120 cm
Valance length									
100 cm	S	S	L	S	S	S	S	L	S
150 cm	S	S	–	T	S	T	S	–	T
210 cm	T	S	–	T	S	T	S	–	T

- S Seamless: seamless fabric; structure of fabric runs diagonally to structure of awning fabric
 T Transverse seam: fabric with transverse seam; either in top or bottom third as desired; structure of fabric runs diagonally to structure of awning fabric
 L Longitudinal seam: structure of fabric runs longitudinally to structure of awning fabric



Patented OptiFlow-System®

to keep fabric perfectly positioned on the awning roller and the Valance Plus roller

The patented weinor OptiFlow System® ensures that the front rail closes reliably, even when the fabric is wide and the fabric roller is small.

Conventional holder

In this case, the fabric roller is not supported from side to side.

The result:

- the fabric is not ideally positioned
- dirt gathers on the fabric over time due to the central position of the support

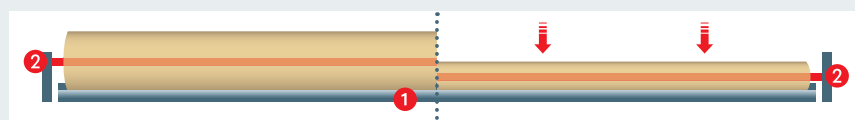
OptiFlow system®

Here, the fabric roller rests unattached on the glide profile: the entire width of the fabric is supported and cannot sag.

The advantage:

- the fabric positioning is ideal even for wide fabrics
- specially coated glide profile means the fabric enjoys long-term protection

Advantages of the fabric roller support



Fabric roller is unrolled: the glide profile (1) supports the fabric roller along its entire length and thus effectively prevents sagging.

Fabric roller is rolled up: the fabric roller steadily rolls into its holder (2). The glide profile continues to provide support along its entire length.



BiEasy 5M

BiEasy 15M
with display

weinor BiConnect – coordinated control for awning, light, heating and Valance Plus (optional)

The awning comes as standard with one motor and can optionally be controlled with the pre-programmed BeEasy remote control. There are

handheld transmitters with different numbers of channels: choose from 1, 5 or 15 channels with a display.



BiConnect BiEasy handheld transmitter

- safe to operate on protected frequency (868 MHz)
- range of up to 100 m

Exclusive retraction protection

- coordinated retraction: first the Valance Plus, then the awning
- this keeps any items on the patio table safe and sound

BiRec remote-controlled receiver

- various remote-controlled receivers depending on functions used
- to suit awning fittings – e.g. to extend and retract the awning or dim the lights

Product	Fittings (integrated)		Remote-controlled receiver	Handheld transmitter
Zenara	Awning motor		BiRec MA	BiEasy 1M
Zenara LED	+ LED light		BiRec MLED	BiEasy 5M/15M
	+ LED light	+ heating	BiRec MLED, BiRec HD	BiEasy 5M/15M
Zenara Valance Plus	+ Valance Plus		BiRec MVLED	BiEasy 5M/15M
	+ Valance Plus	+ heating	BiRec MVLED, BiRec HD	BiEasy 5M/15M
Zenara LED Valance Plus	+ LED lighting + Valance Plus		BiRec MVLED	BiEasy 5M/15M
	+ LED lighting + Valance Plus	+ heating	BiRec MVLED, BiRec HD	BiEasy 5M/15M

Requires awning with BiConnect remote control, sensors require a BiEasy 1M, 5M or 15M

Product	BiConnect	Somfy RTS	Somfy io
Zenara	●	●	●
Zenara LED	● dimmable	● not dimmable	● not dimmable
Zenara Valance Plus	●	●	—
Zenara LED Valance Plus	● dimmable, gradual switch-off, retraction protection	● not dimmable, without soft close function, no retraction protection	—

● available — not available



BiSens SWR-230 V

Sun, wind and rain sensors – automatically protect your product and prevent excess heat (optional)

The BiConnect series remote sensors automatically extend the awning when the sun shines and reliably retract it in the wind or rain.

Available types:

- BiSens SWR-230 V
sun, wind and rain sensor
- BiSens SW-230 V
sun and wind sensor
- also solar-run:
BiSens SW-Solar



Tempura Universal heating system, high-performance level (optional)

The energy-efficient Tempura infrared heating system has an impressive heating capacity of over 1,500 watt in a tiny housing.

- instant heat: no warm-up time
- turn as required for targeted warmth
- operate and dim using BiConnect remote control
- splash protection
- comes in 47 standard frame colours plus 9 scratchproof, resistant trend colours with a smart, textured look
- option: 150 special RAL colours
- universal bracket makes it easy to retrofit
- TÜV tested



Determining the projection and clearance height:

1. Find the projection by looking in the 'Projection' table for the patio depth.
2. Using the projection from the table and the required pitch, consult the 'clearance height' table for the clearance height. This clearance height refers to an installation height of 300 cm.
3. Add/subtract the difference between 300 cm and the actual mounting height to/from the clearance height in the table.

Determining the projection

This table can be used to find the awning projection for any given horizontal patio depth.

Pitch	Patio depth in cm					
	150	200	250	300	350	400
5°	151	201	251	301	351	402
15°	155	207	259	311	362	414
25°	166	221	276	331	386	441

Projection in cm (rounded figures)

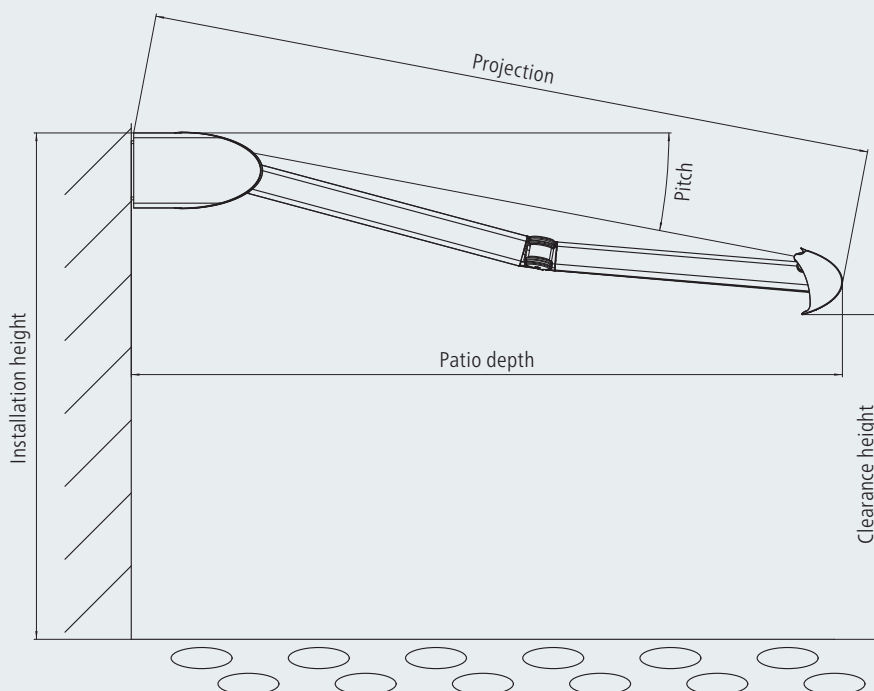
Determining the clearance height

This table is used to find the clearance heights for various projections when the tilt angle is 5°, 15° or 25°.

This table is based on the example of an installation height of 300 cm (upper edge of awning).

Pitch	Projection in cm					
	150	200	250	300	350	400
5°	274	270	265	261	257	252
15°	248	235	223	210	197	184
25°	224	203	182	160	139	118

Clearance height in cm (rounded figures)





This is why the Zenara only needs two brackets

The weight and wind load of the awning is conveyed as a tensile load from each of the two folding arms to the bracket located closest to the respective arm. The larger the bracket and the more suitable the fixings that are used, the better this load can be spread. Certain conditions need to be considered, however: when determining how far apart the fixings should be spaced, it is important to take the installation surface into account and e.g. the gouge caused by the fixings (see manufacturer's table).

Sizes and bracket recommendations

Width in cm	Number of arms	Projection in cm (irregular figures possible)					
		150	200	250	300	350	400
228 – 250	2	●					
251 – 300	2	●	●				
301 – 350	2	●	●	●			
351 – 400	2	●	●	●	●		
401 – 450	2	●	●	●	●	●	
451 – 500	2	●	●	●	●	●	●
501 – 550	2	●	●	●	●	●	●
551 – 600	2	●	●	●	●	●	●
601 – 650	2	●	●	●	●	●	●

● Zenara standard wall bracket

● mounting plate, 405 x 144 mm, incl. 1 standard wall bracket and covers

Wall mounting on C20/25 concrete with up to 200 mm of facing, wind resistance class 2 and a permissible centric tensile load of 5.71 kN for anchor bolts

Innovative wire tensioning technology, as used in bridge construction

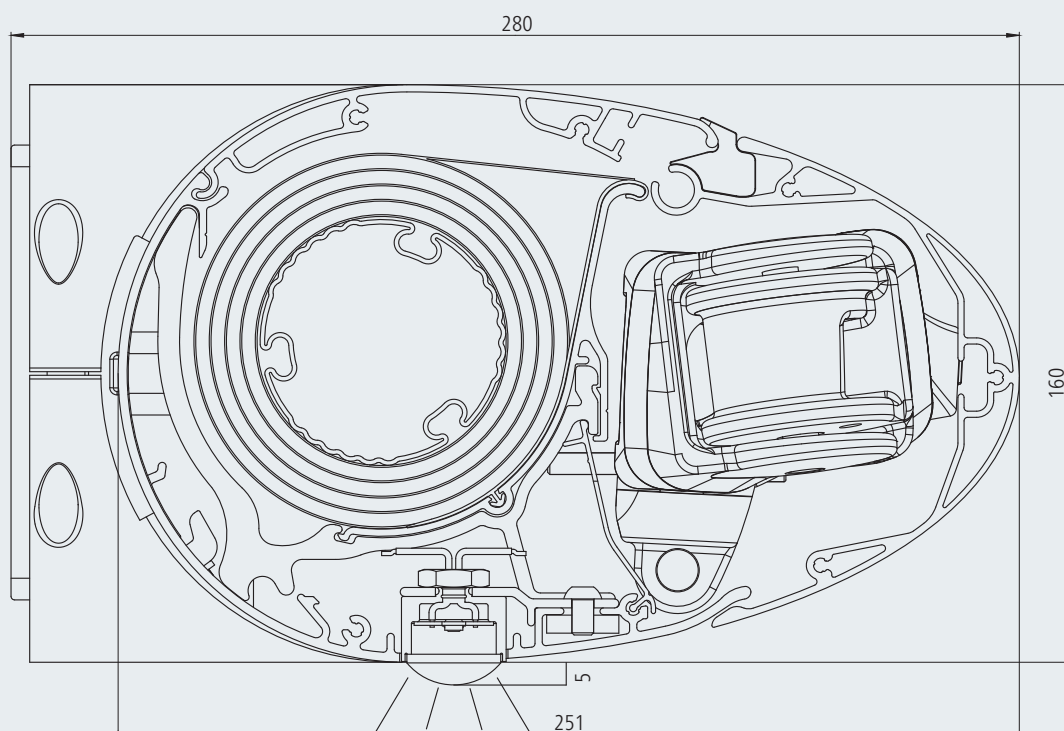


Although the Zenara only requires two brackets, it will not bend out of shape. This is all made possible by our patent-pending wire tensioning system, the same type of technology that is used for bridge construction.

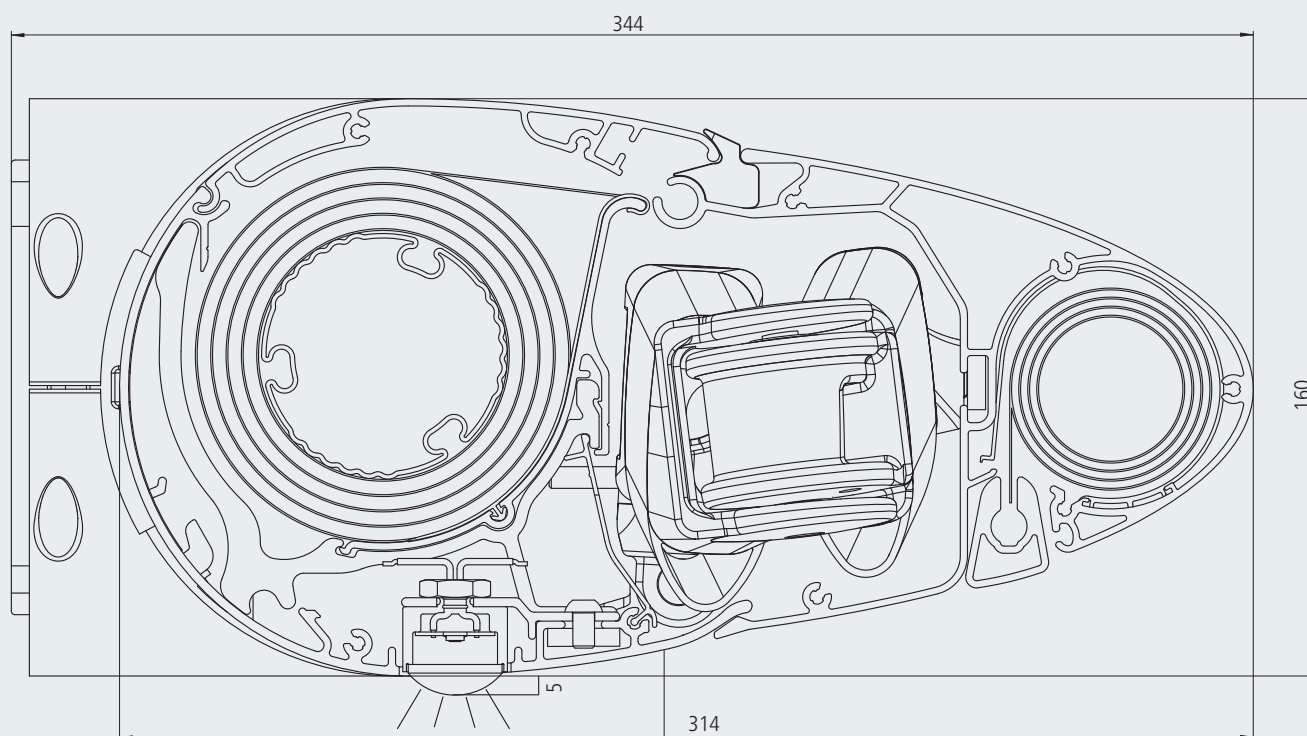
The awning is pre-tensioned by means of a wire housed on the inside. This is so effective at preventing the housing from sagging that only one bracket needs to be attached to each end of the housing.

This procedure was developed in cooperation with Siegen University.

Cross-section of Zenara LED



Cross-section of Zenara LED Valance Plus

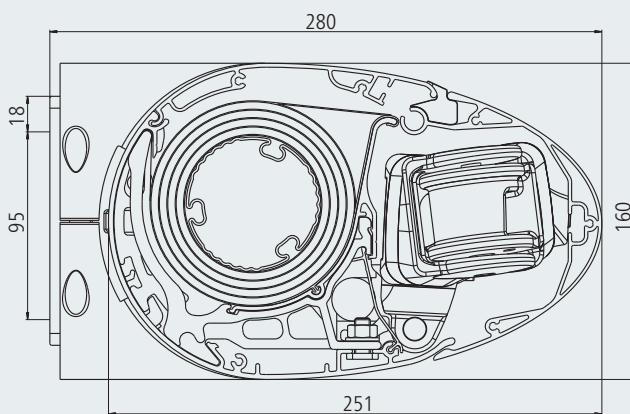
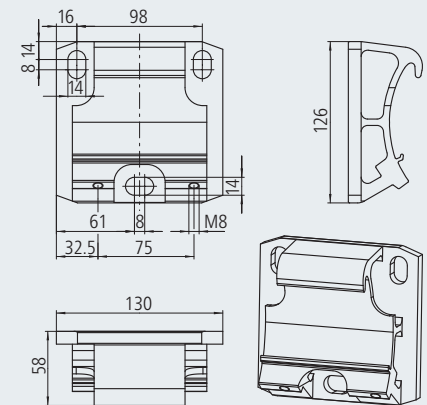


Installation on walls, ceilings or rafters – suitable for various building conditions

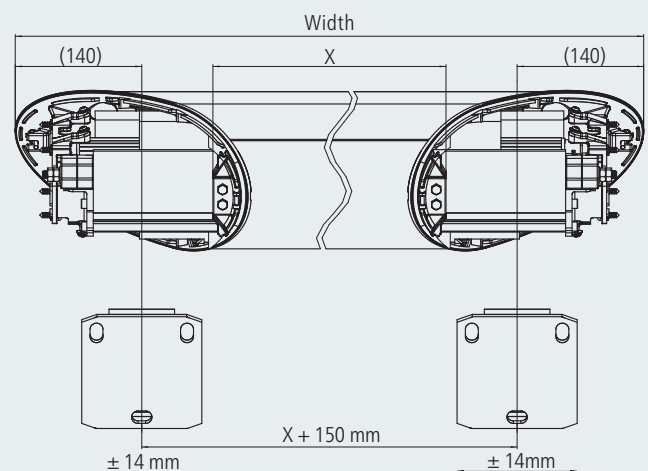
The innovative design of the weinor Zenara means that it can be mounted in a wide range of ways: not only on a wall but also on a ceiling or a rafter. The brackets and mounting plates are made of extruded, powder-coated aluminium.

Protects the building's insulation: In future, it will only be necessary to drill into the wall of a building at two installation points, which means less impact on the building's insulation.

Wall installation



Wall bracket



Bracket spacing

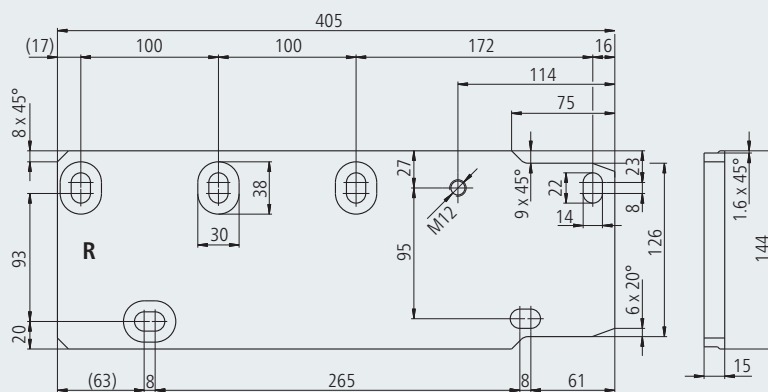
Rafter installation



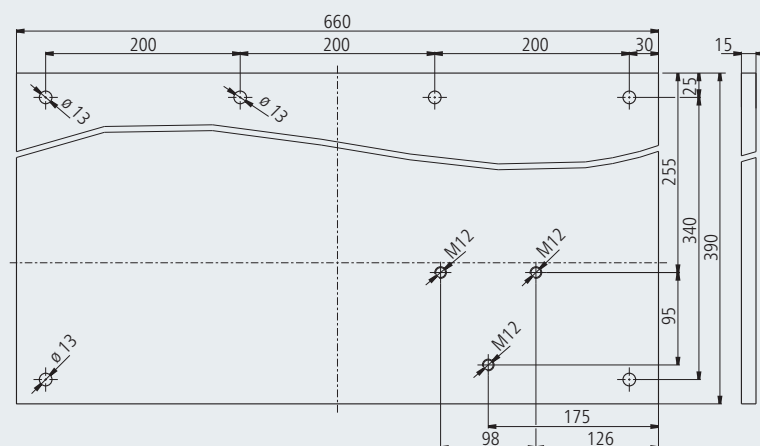
Retrieving information:

Simply scan the QR code into your mobile terminal to receive full information on rafter installation.

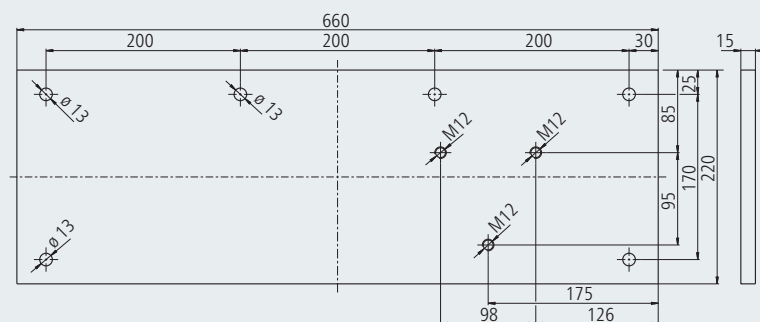
Mounting plate 405 x 144 mm x 15 mm



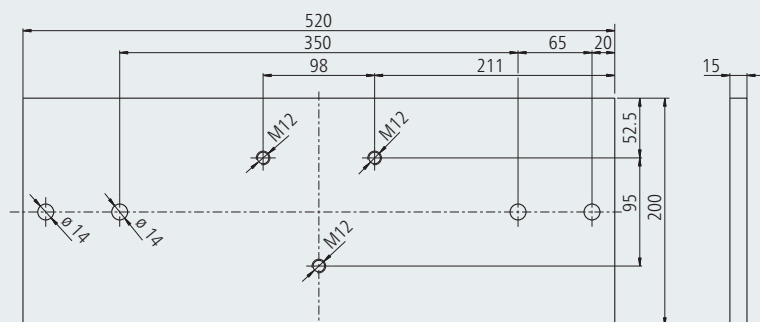
Mounting plate 660 x 390 mm x 15 mm



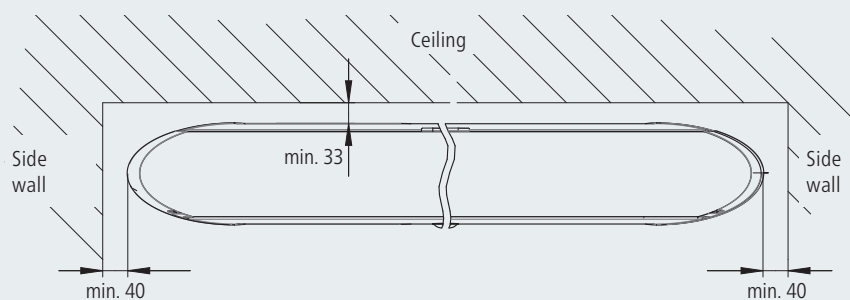
Mounting plate 660 x 220 mm x 15 mm



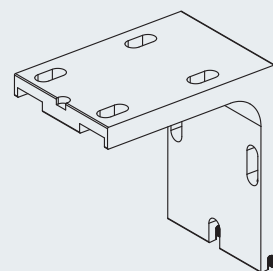
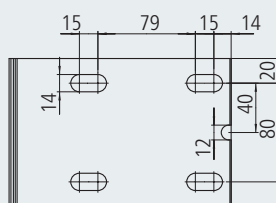
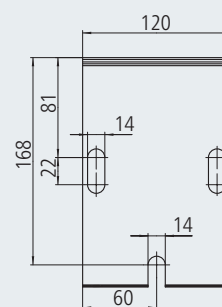
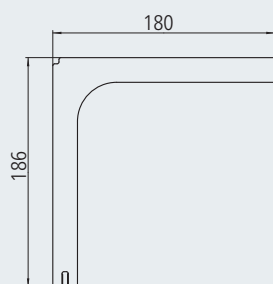
Ceiling front plate 520 x 200 mm x 15 mm



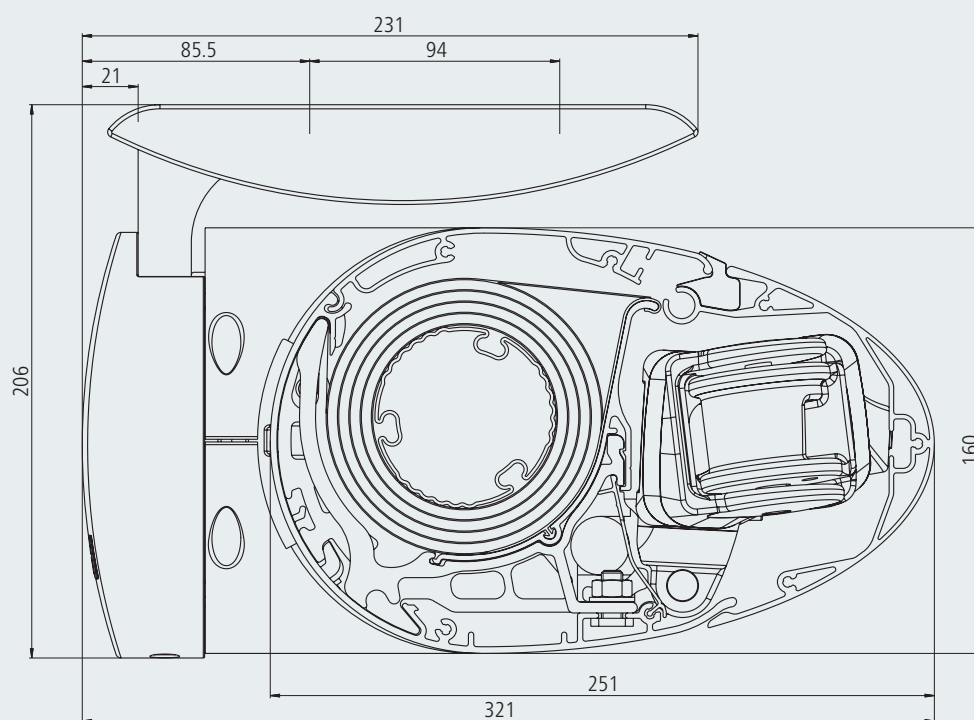
Minimum spacing distances for installation



Ceiling installation



Ceiling bracket



Side view with ceiling bracket

Extraction forces of Zenara/Zenara LED

**Wall mounting on C20/25 concrete with up to 200 mm of facing,
Extraction force in N per upper fastener in wall bracket**





The extraction force is the force with which the weight of the awning and the wind load pull on each upper fixing. The tables indicate this force in N per upper fixing. It varies depending on the awning size and the wall bracket/mounting plate used.

Selecting the wall bracket and anchoring system:

1. Consult relevant table for extraction force per fixing for selected awning size.

2. Select a wall bracket/mounting plate for which a fastener is available that can resist the indicated extraction force. Remember to take into account the spacing, the area which will be damaged if the fixing breaks out, the type of fixing used and the assembly base.


See separate bracket overview for other bases.

-  Standard wall bracket fixings: 3* per bracket
-  Mounting plate, 405 x 144 mm incl. 1 standard wall bracket and covers fixings: 6* per bracket
-  Mounting plate, 660 x 220 mm incl. 1 standard wall bracket and covers fixings: 6* per bracket
-  Installation on front of concrete ceiling with standard wall bracket fixings: 3* per bracket incl. ceiling front plate fixings: 4* per bracket

Width in cm	Projection in cm					
	150	200	250	300	350	400
250	732					
	330					
	182					
	709					
300	847	1262				
	382	567				
	211	314				
	820	1222				
350	961	1434	2024			
	434	644	907			
	239	356	502			
	931	1389	1959			
400	1076	1607	2265	3080		
	485	722	1015	1378		
	268	399	562	763		
	1042	1555	2192	2981		
450	1191	1779	2505	3399	4327	
	537	799	1123	1520	1933	
	296	442	621	842	1071	
	1153	1722	2425	3291	4189	
500	1305	1951	2746	3719	5356	6785
	589	876	1230	1663	2392	3027
	325	485	681	921	1326	1679
	1264	1889	2658	3600	5185	6569
550	1420	2124	2987	4550	5830	7379
	640	954	1338	2035	2604	3292
	354	528	741	1127	1444	1826
	1375	2056	2891	4404	5644	7143
600	1535	2296	3227	4918	6305	7972
	692	1031	1446	2200	2816	3557
	382	570	800	1219	1561	1973
	1486	2223	3124	4761	6104	7718
650	1649	2468	3900	5286	6779	8566
	743	1109	1748	2365	3028	3822
	411	613	967	1310	1678	2119
	1597	2389	3775	5118	6563	8293

Ceiling installation on C20/25 concrete

Extraction force in N per upper fastener in ceiling bracket





-  Zenara ceiling bracket with wall bracket and cover fixings: 3* per bracket

Width in cm	Projection in cm					
	150	200	250	300	350	400
250	455					
300	530	779				
350	605	888	1243			
400	679	997	1394	1889		
450	754	1106	1544	2087	2658	
500	829	1215	1695	2286	3272	4152
550	903	1324	1845	2777	3564	4517
600	978	1433	1996	3004	3856	4882
650	1053	1543	2388	3230	4147	5248

* number of fixings required on site


Extraction forces of Zenara with Valance Plus

**Wall mounting on C20/25 concrete with up to 200 mm of facing,
Extraction force in N per upper fastener in wall bracket**

-  Standard wall bracket
fixings: 3* per bracket
-  Mounting plate, 405 x 144 mm
incl. 1 standard wall bracket
and covers
fixings: 6* per bracket
-  Mounting plate, 660 x 220 mm
incl. 1 standard wall bracket
and covers
fixings: 6* per bracket
-  Installation on front of concrete
ceiling with standard wall bracket
fixings: 3* per bracket

Width in cm	Projection in cm					
	150	200	250	300	350	400
250	1313					
	647					
	327					
	1271					
300	1540	2162				
	759	1062				
	383	536				
	1491	2093				
350	1767	2479	3317			
	871	1218	1626			
	439	615	822			
	1710	2400	3211			
400	1993	2797	3736	4840		
	982	1373	1831	2368		
	496	694	926	1198		
	1930	2707	3616	4686		
450	2220	3114	4154	5370	6613	
	1094	1529	2036	2628	3232	
	552	773	1029	1329	1636	
	2149	3014	4021	5199	6402	
500	2446	3431	4573	5901	7885	
	1205	1685	2241	2887	3854	
	608	851	1133	1461	1951	
	2368	3322	4427	5713	7633	
550	2673	3748	4991	6942		
	1317	1841	2446	3398		
	664	930	1237	1719		
	2588	3629	4832	6721		
600	2900	4066	5410	7522		
	1429	1996	2651	3681		
	721	1009	1340	1862		
	2807	3936	5237	7281		

**Ceiling installation on C20/25 concrete
Extraction force in N per upper fastener in ceiling bracket**

-  Zenara ceiling bracket
with wall bracket and cover
Fasteners: 3* per bracket

Width in cm	Projection in cm					
	150	200	250	300	350	400
250	785					
300	924	1305				
350	1062	1499	2014			
400	1201	1694	2271	2951		
450	1339	1888	2528	3278	4051	
500	1477	2082	2785	3604	4814	
550	1616	2276	3041	4222		
600	1754	2470	3298	4576		
650						

* number of fasteners required on site

Awnings



Awning



Awning with Valance Plus and Tempura



Awning with Valance Plus and Paravento



Premium quality
Made in Germany

Textile awning with posts



PergoTex and Tempura



Textile patio roof Plaza Home and Paravento

Customised, systemised solutions

Patio roof and Glasoase®



Glasoase® with conservatory awning and all-glass elements



Patio roof with SUPER LITE fixed glazing



Terrazza patio roof with Sottezza sun protection



Plaza Pro textile patio roof with Paravento and VertiTex

Patent no			
EP1310609	1541776	EP0916781	0994221
1403442	2072709	EP0959195	1206609
1382770	0745742	EP0942114	1099808

Last revised: January 2014