



MoGaCo boom Canopy System

- Operating Instructions
- Installation Instructions

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Introduction to the MoGaCo boom

In purchasing the MoGaCo boom you have acquired a high quality product manufactured to the latest state-of-the-art technology, which is simple to erect and operate.

In this Manual we describe the principles for installation, commissioning and operation

- _ for authorised technical installers
- _ for the end-user / customer.

The following symbols denote references for installation or for use and for promoting safety awareness when handling:



Note!

This symbol indicates notes, which if not heeded, will create danger for the user.



Note!

This symbol indicates notes, which if not heeded may cause damage to the product.



This symbol indicates notes on use or useful information.



This symbol prompts you to carry out a task.



Note!

This symbol indicates the risk of injury or danger to loss of life by electrocution.



This symbol indicates zones on the product to which you will find important information in this Installation Manual.

General Notes

- Queries

If you still have any queries concerning installation or the use of your awning, please contact your authorised dealer.

- Replacement Parts / Repairs

can be obtained from or undertaken by your arabella dealer.

Only replacement parts released by Rau arabella should be installed or used.

- Liability

The manufacturer accepts no liability nor provide warranty under the guarantee if the information and notes given in this Manual are not heeded, or if the product is not used in accordance with the Operating Instructions or is used in a manner other than that specified in the "Purpose of Use" where damage to the product is caused.

Liability concerning consequential damage to property of any kind or injury to any person or persons is excluded.

- Legal Notes

Graphics and texts in this Manual have been produced with care, but in the event of error or consequences arising there from no liability can be accepted! The right to make technical changes to the product and to this Manual is reserved!

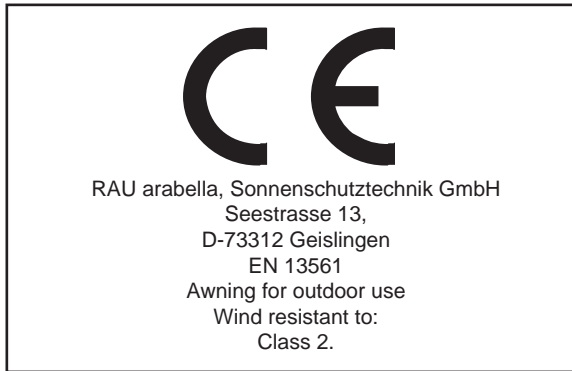
The Manual contains copyright protected information.

All rights are reserved!

The product mentioned or trade names are copyright protected.

CE Mark

The MoGaCo boom has a CE -declaration and conforms to DIN EN 13561 of wind resistant classification 2.



The CE mark applies to condition of the awning when dispatched.
In the installed condition the awning only fulfils the requirements for the stated wind resistant class

if,

_ the awning is assembled and installed using the type and quantity of screws recommended

_ the awning is installed with dowels / plugs which can attain the stated tensile extraction force

_ during the installation, the notes and instructions for the dowels or plugs to be used, are heeded.

No alterations, subsections, conversions or additions may be made to your MoGaCo boom, except for those described in this Manual.

Any alteration, conversion or addition will render the attached CE mark invalid.

Safety Notes



Please read the complete Manual thoroughly with careful attention prior to installation and use.

Keep to the described sequence of procedure for assembly and installation and heed the recommendations and notes.

Store this Manual in a safe place.

Do not grasp or delve into any moving parts whilst it's in its operation mode.

Make sure that no items of clothing or limbs can be caught by the system.

Heed accident prevention guidelines / regulations issued by the "Berufsgenossenschaft"! (trade association)

Only use the system solely for the purpose of use specified.

Any other use may lead to endangering the user and to damaging the product.

If used other than that specified in the "Purpose of Use" any claim under warranty will be rendered null and void!

Before operating the system please check for any signs of damage.

The system must not be used if any damage has occurred, and it is essential that authorised technical personnel be contacted immediately.

Position the operating switch within sight of the installation, but not within the zone of the moving system components.

Never allow children to play with the system.

Take safety measures to prevent the risk of any crushing or trapping occurring, especially when the system is in operation using automated equipment.

Any improper use will invalidate the warranty!

Awnings fitted with electric-powered drives must not be retracted with the power switched off.

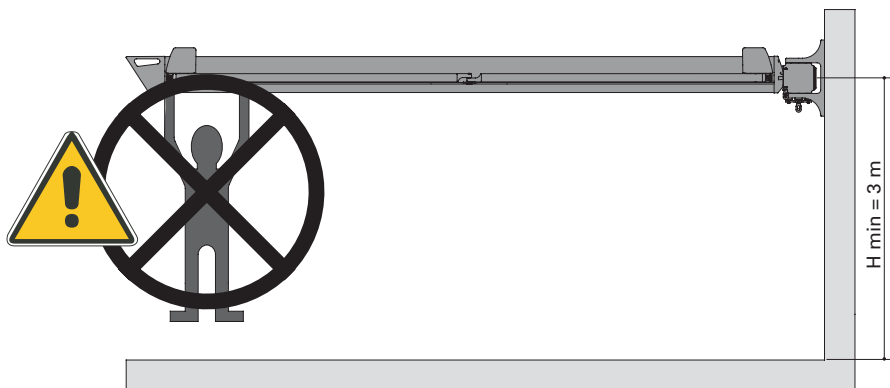
We recommend, therefore, especially in windy regions, the installation of an emergency power supply.

The pivot arms of your awning are subject to extreme mechanical stress.



There is a risk of possible impaction and crushing that could occur.

No modifications may be made to the pivot arms. Nor must the arms be disassembled.



Note! Under no circumstances must the system be subjected to additional loading! This applies equally to subjecting the installation to supporting the weight of a person.

The mounting height should be 3m



Note! Risk of injury and loss of life through electrocution! Erection, testing, commissioning and eradication of defects and faults in the system must only be undertaken by an authorised technician.

When working on the system, switch off all electrical supply connections!

There is a risk to loss of life!

Take steps to ensure safety precautions are in place to prevent the system being unintentionally switched on!

Regularly inspect the electric cables for any damage.
If damage has occurred do not use the system.

Our electric-power driven systems conform to the regulations for powered installations in accordance with VDE 100.

In the case of non-approved modifications we are unable to guarantee operational safety of the system.

The enclosed installation instructions of the supplied electrical equipment are to be heeded.



The drive motors which are used operate on an electrical supply of **230V 50 Hz AC**.

Check that the power supply available is compatible before connecting the system to the mains.

Any other voltage supply can destroy the drive motors!

Be sure to retract the system to prevent damage occurring when it is raining, snowing or during windy weather.

When using the automated control systems, set the wind detector analogously to suit the wind resistant classification of the installed awning.



Wind resistant class 0 = Wind strength <4 (Beaufort), a rating not required or not measured (as per DIN 13561) or for a product, which the requirements of wind resistant class 1 is not fulfilled.

Wind resistant class 1 = Wind strength 4 (Beaufort), moderate breeze, rustling twigs and thin branches, lifting dust and loose paper.

Wind resistant class 2 = Wind strength 5 (Beaufort), fresh breeze, fresh wind. Small leafy trees begin to sway, whitecaps forming on the sea or large lakes.

Use in the winter:



Snow or ice can destroy the system.

The system must only be used if it is certain that no ice or snow will collect on the shade material.

At this time of the year the automated control systems must be switched over to manual operation.

Purpose of Use:

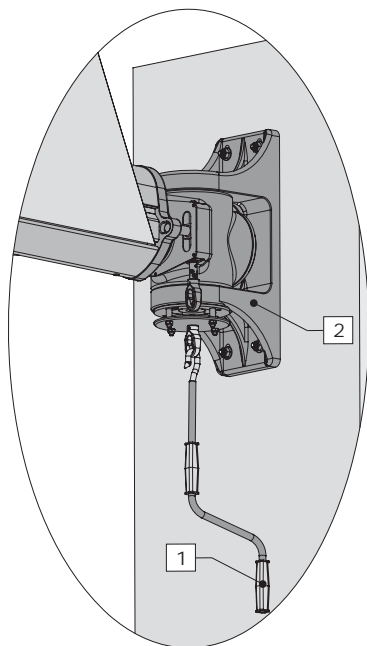
The MoGaCo boom is to be used as:

- _ a sunshade
- _ for thermal protection
- _ for preventing glare

Operating Instructions

Pivoting the system

1. Unlocking the pivot device:



Insert the crank handle (1) into ring (3) situated on the locking plate (4).

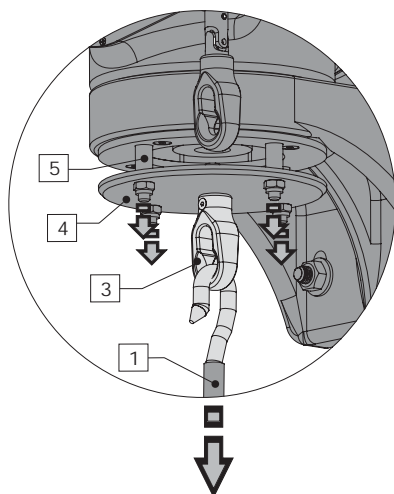
Now pull down the locking plate (4) with the aid of the crank handle (1) down to the deadstop. This will also draw down the locking pins (5).



The bearing housing (2) is now unlocked and can be rotated.



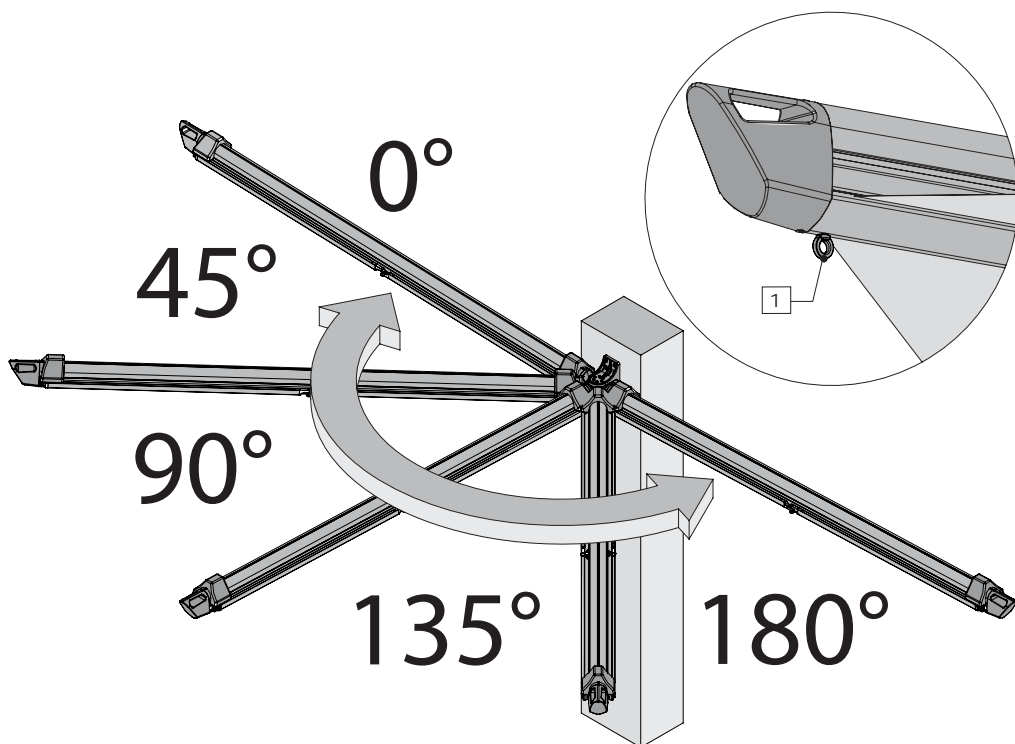
The awning must never be deployed or operated whilst in the unlocked state.



Operating Instructions

Pivoting the system

2. Pivoting the arm



Now rotate the arm to the desired position. To do this, the second crank handle must be inserted into the pivot ring (1) There are 5 possible positions, which can be selected in pivotal increments of 45° (from 0° to 180°).

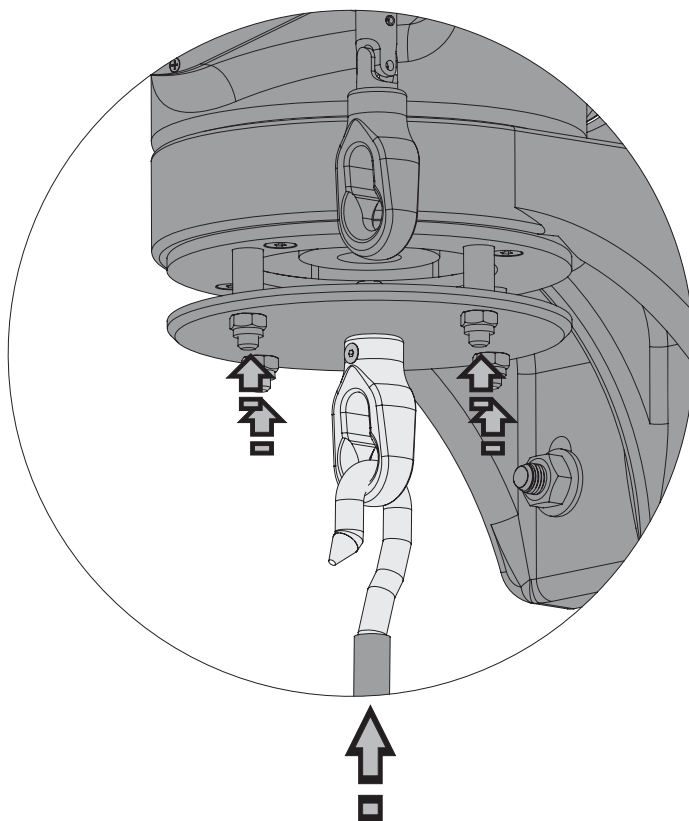


The awning must not be rotated if the bearing housing is unlocked.

Operating Instructions

Pivoting the system

3. Locking the pivot device:



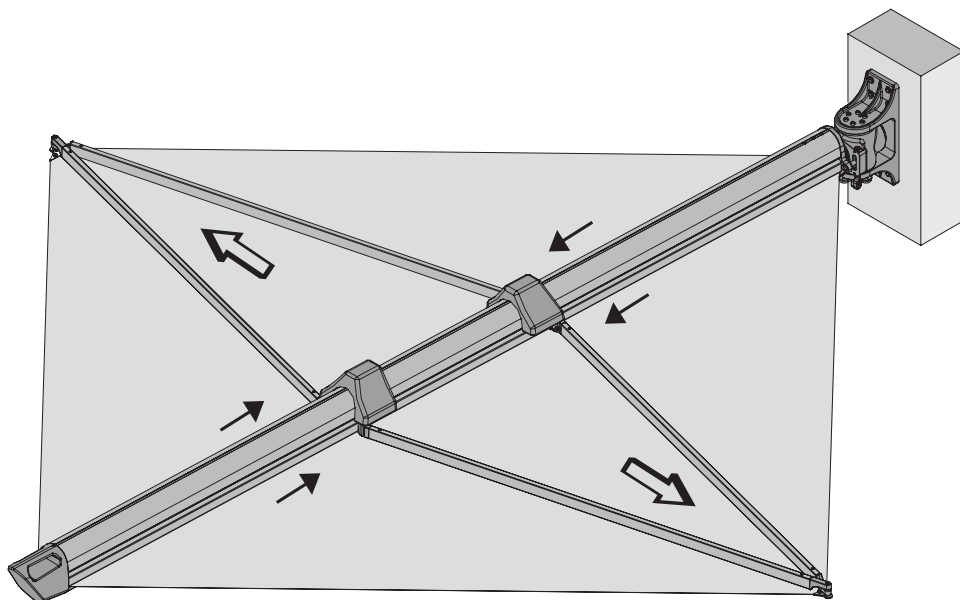
When the desired position of the arm has been reached, the crank handles can be removed. The locking pins will engage automatically into the applicable holes in the tilted support bracket.



Only after the system has been successfully locked in its position can the awning be deployed!

Operating Instructions

Deploying the shade



- System equipped with radio controlled drive mechanism



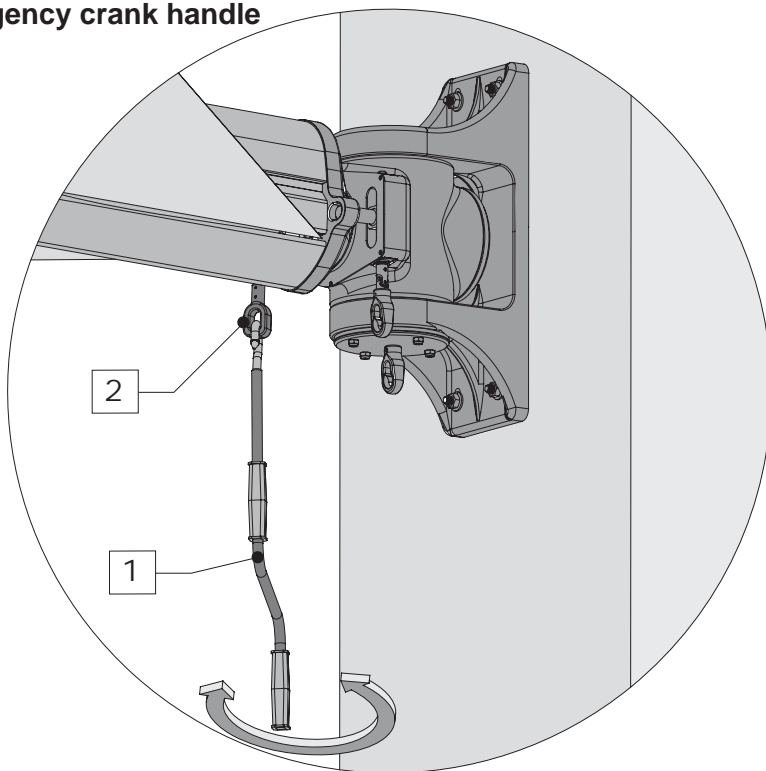
By operating the remote control or activating an automated unit the awning will be deployed or retracted.



The terminal deadstops of the drive system are set in the factory. If these need to be altered, please heed the enclosed instructions supplied by the manufacturer.

Operating Instructions

- System equipped with radio controlled drive mechanism and emergency crank handle



By operating the remote control or activating an automated unit the awning will be deployed or retracted.



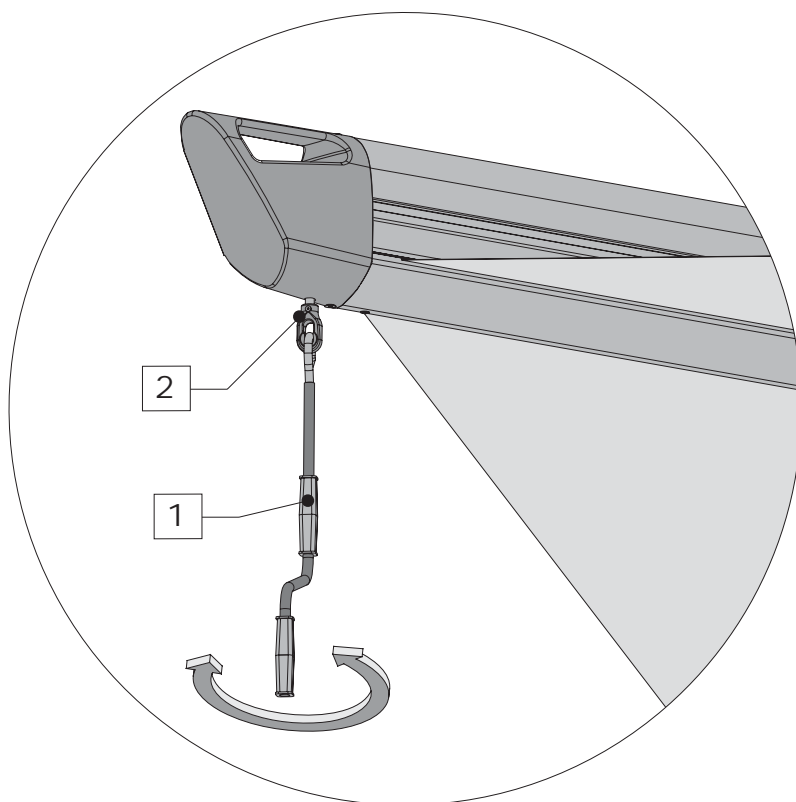
The terminal deadstops of the drive system are set in the factory. If these need to be altered, please heed the enclosed instructions supplied by the manufacturer.



If the electric powered drive mechanism fails to operate, the system can be operated with the aid of the emergency crank handle. To do this, insert the crank handle (1) into the emergency crank handle location ring (2). By rotating the crank handle the awning can be deployed or retracted. The respective direction of rotation is dependent upon the side of the drive.

Operating Instructions

- System equipped with manually operated crank handle drive



By rotating the crank handle the awning will be deployed or retracted accordingly. To do this, insert the crank handle (1) into the ring situated on the crank handle drive (2).



The respective direction of rotation is dependent upon the side of the drive.

In the direction of deployment the deadstop of the drive unit is restricted by a free-wheel ratchet device. A clicking sound can be heard when this point is reached when rotating the crank handle beyond this deadstop.

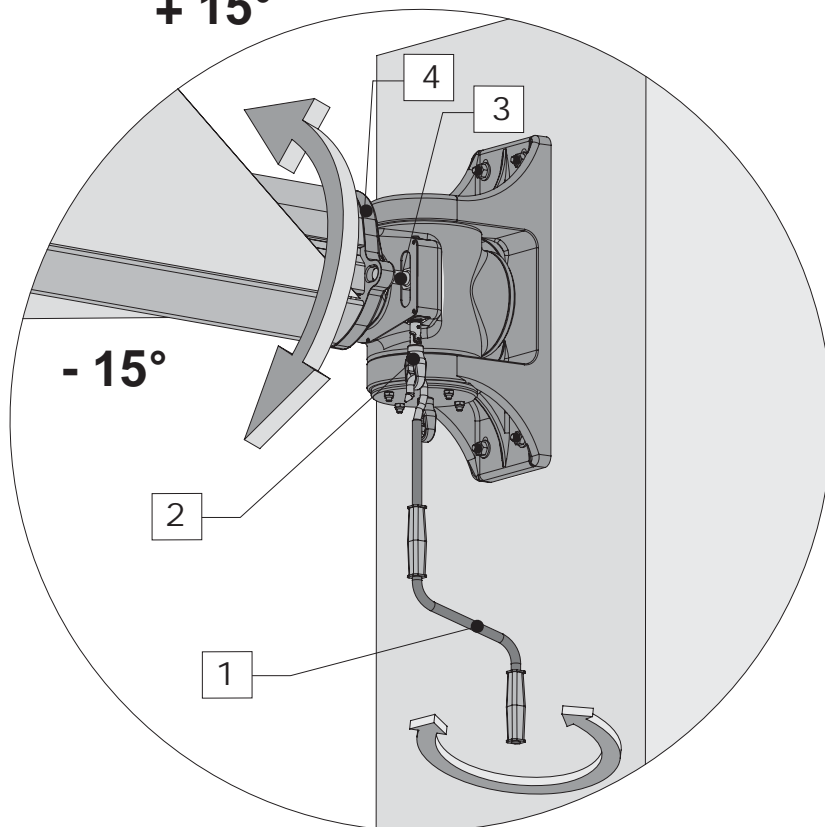


Do not rotate with force against the outer deadstop.

Operating Instructions

Horizontal tilting adjustment

+ 15°



The system can be tilted with the aid of the tilt adjustment mechanism between an angle of 30°. As a result, the position of the double shade boom can be adjusted to suit the movement of the sun across the sky, thus obtaining a greater cast area of shade.

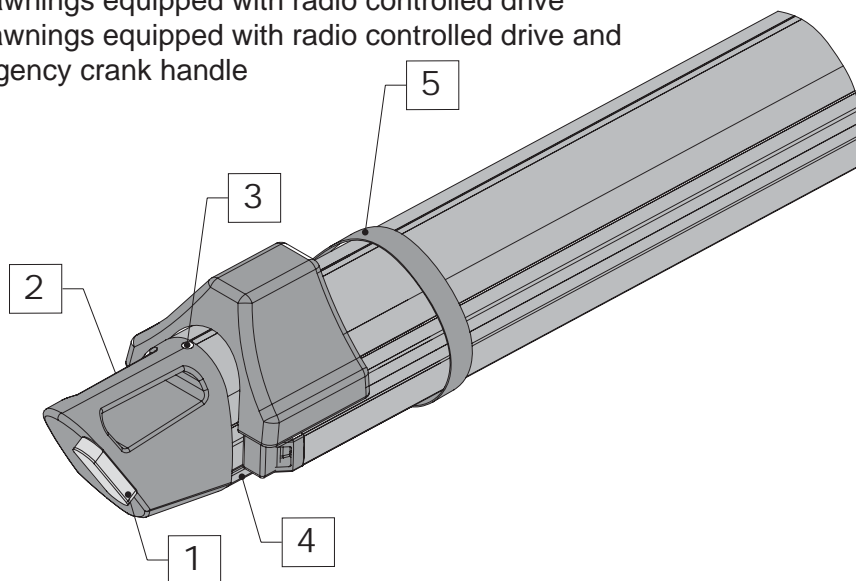


Insert the crank handle (1) into the ring on the horizontal tilt adjustment mechanism (2). By rotating the crank handle (1) the adjustment bolt (3) moves upwards or downwards along the threaded spindle, such that it turns the tilt support bracket (4), making the awning tilt.

Operating Instructions

Wind Sensor

- for awnings equipped with radio controlled drive
- for awnings equipped with radio controlled drive and emergency crank handle



The “Eolis 3d Wirefree RTS” (1) is mounted in the nose of the profile cloaking strip (2). The nose must be removed if the sensor is to be adjusted or replaced.



To carry out this procedure, the awning must be retracted and the profile support must be secured with a belt (5) to prevent it falling down. This is to be done before the two M8 Allen key socket head countersink screws are loosened, because after the nose is removed the profile support would drop off.



When the power in the batteries for the wind sensor is depleted, the awning retracts and cannot then be deployed. The nose must then be removed and the 1.5 V AAA batteries replaced.



The oscillatory threshold value of the wind sensor is preset to the standard level of stage 2. As to how the oscillatory threshold value can be altered can be derived from the enclosed setting instructions of “Eolis 3d Wirefree RTS”.

Tips on Care, Maintenance and Instructions

In purchasing the MoGaCo boom, you have acquired a high quality awning.

So that you can enjoy your awning for as long as possible, we would ask you to observe the following tips and instructions:

1. Tips on the fabric of the shades made from special acrylic fibres:

Special acrylic fibres as are processed for manufacturing awnings are of the highest quality material for making the shades.

Because they are dyed during spin nozzle processing, they feature the highest level of resistance to fading by daylight and change in colour tone. In addition, they possess an unrivalled resistance to tearing or ripping, and are resistant to the effects of weathering, rotting and the environment. A special textile treatment also makes them repel dirt, water, oil and grease. The awning shades are subjected to many stages of inspection and monitoring, during the weaving process, during tailoring and when finishing the awning product. However, as with any woven product variation in the uniformity of the surface finish can occur, even for the shades of awnings.

As a consequence you may discover small knotting in the fabric, speckling of the colour, uneven threads, stretching or slight deviations and displacement in the design and pattern, as well as variations in the colour tone when looking directly over the fabric or through the fabric. Please note that the colour of the awning will appear differently when the sunlight shines through it than when it is in the shade. The optical perception of colour depends naturally upon the composition and the intensity of the light upon the awning. With increasing depth of colour more light is absorbed and less light is reflected. Dark fabrics allow, therefore, much less light to penetrate, and light / bright colours much more light through. The composition of the penetrating light, however, is altered by partial absorption when passing through the material, and releases optically another impression of colour.

The colour pigments incorporated in the fibres and impregnation can create shadows through creases and wrinkles, which are particularly visible as stripe shadows where light or bright colours are used.

Functionality, tear resistance or density of the fabric is not adversely affected by this. Even slight variations in colour between the individual lengths of material, or colour differences in respect to the sample collection are not excluded. Processing of several, even differing widths of rolls of material is dependent upon the overall width of the awning.

A certain puckering of the fabric and the formation of folds at the seams can occur, since the material is wound up double thickness at the seams.

The greatest stress and loading occurs at the seams of the shade fabric. On rolling up the material, the seams and hemmed edges lie on top of each other, which also increases the loading and stress even more. Seams and hemmed edges are pressed flat and increase in their length as a result. This can lead to the side seams of the material hanging down slightly. Sagging is also possible as a result of the intrinsic weight of the awning fabric. The phenomena mentioned for awning fabric are not faults or defects that have been missed during inspection procedures. They are caused by material and technical conditions, and are unavoidable due to the laws of physics. They do not justify the grounds for rejecting the product or for reducing the price.

To this accord, the directives issued by the "Bundesverband Konfektion Technischer Textilien e. V." (federal association of tailoring of technical textiles) for assessing tailored awning shades also form a part of our sales and supply conditions.

2. Cleaning:

As an outdoor protection from the sun your awning can become dirty in the course of time. The serviceability of your awning is unaffected by this. Naturally, you can have a heavily soiled shade replaced by the awning technician. The powder coated parts of your awning will remain attractive longer if they are regularly cleaned using a soft wool cloth.



Do not use any solvents, no alcohol (spirits) and no scouring agents!

Contamination due to fingerprints, slight spots of grease and oil can be removed as follows:



Wash off the coated metallic parts of the system with a mild domestic cleaning agent and soft cloth. Then rinse off with clean water and dry using a soft cloth.

Brush out in a dry state any slight soiling of the draped material.



Hard water leaves traces of lime scale behind. A small amount of vinegar in the rinsing water prevents this from occurring.

You can obtain suitable cleaning agent for heavily contaminated drapery from your dealer.

3. Preventive measures

If the shade has to be retracted when it is wet, deploy it again to dry at the next available opportunity, in order to avoid mildew spots forming.



4. Maintenance

The technology inherent in construction of your awning requires that no maintenance work is necessary!



Inspect on a regular basis the electric cables for electric power-driven awnings for damage.

Inspect the mechanical parts of your awning for visible damage.

Clean the track on the upper surface of the top profile.

Do not use the awning if damage has occurred!

5. Malfunctions

Please report any damage to your dealer. In your own interest, avoid attempting to eradicate any possible damage yourself.

In the event of an operating error and any improper use, the warranty will be invalidated!

Installation Instructions



Check the product immediately upon receipt for any possible damage caused in transit and that it is accordance with the delivery advice note.

If there are any parts missing or damaged please contact your supplier immediately.

Check the structural base to which the awning is to be fixed and ensure that the fixing materials to be used will satisfy the conditions available for securement, in order to ensure a technically appropriate installation. In case of doubt, please seek advise from a competent structural engineering company familiar with making such assessments.



The package carton should not be exposed to any moisture. During transportation the carton should be protected from rain and precipitation by means of plastic sheeting.

Take care when transporting the awning assembly in order to prevent damage occurring.

Remove the packaging material carefully. Take particular care when using a knife not to damage the contents!

Dispose of the packaging material so that it can be recycled.

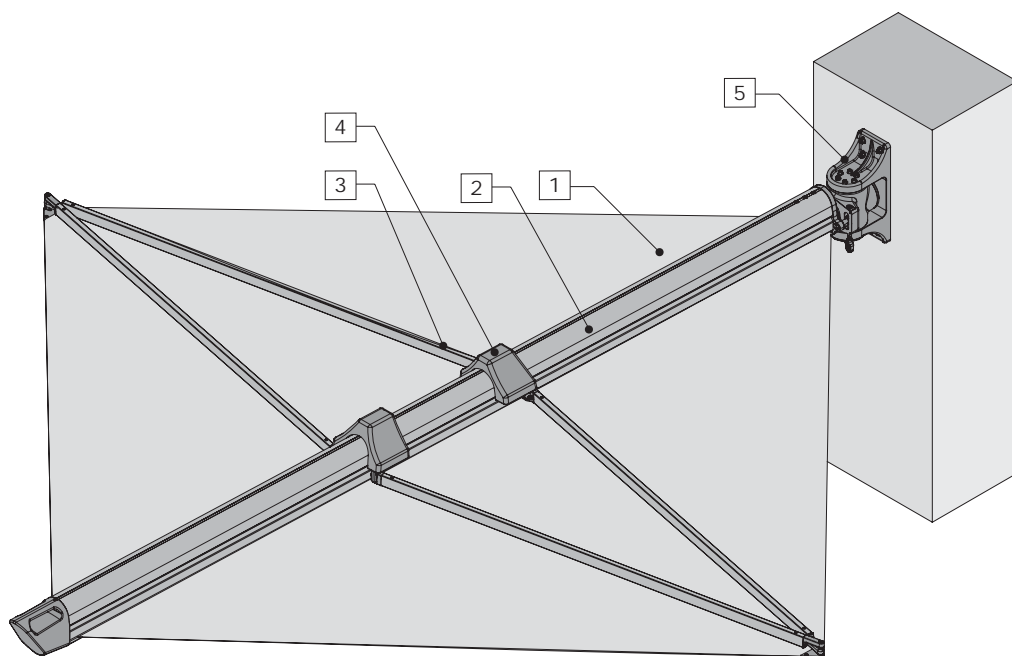


Before commencing installation, check if the requirements necessary regarding the fixing substructure as specified when placing the order are fulfilled by the actual substructure available on site.



Should, in doing this, any deviation be found, which would be detrimental to safety, then do not proceed with the installation. In certain circumstances the rated wind classification to be given will have to be reduced.

Installation Instructions



Item 1..... Fabric

Item 2..... Upper Profile

Item 3..... Bracing arms

Item 4..... Slide unit, Car

Item 5..... Wall bracket

Item 6..... Nose

Item 7..... Manual crank handle

Item 8..... Lower Profile

Item 9..... Crank handle ring for horizontal tilt adjustment

Item 10.....Adjustment bolt

Item 11.....Lockplate

Item 12.....Crank handle ring for lockplate

Item 13.....Pivot ring

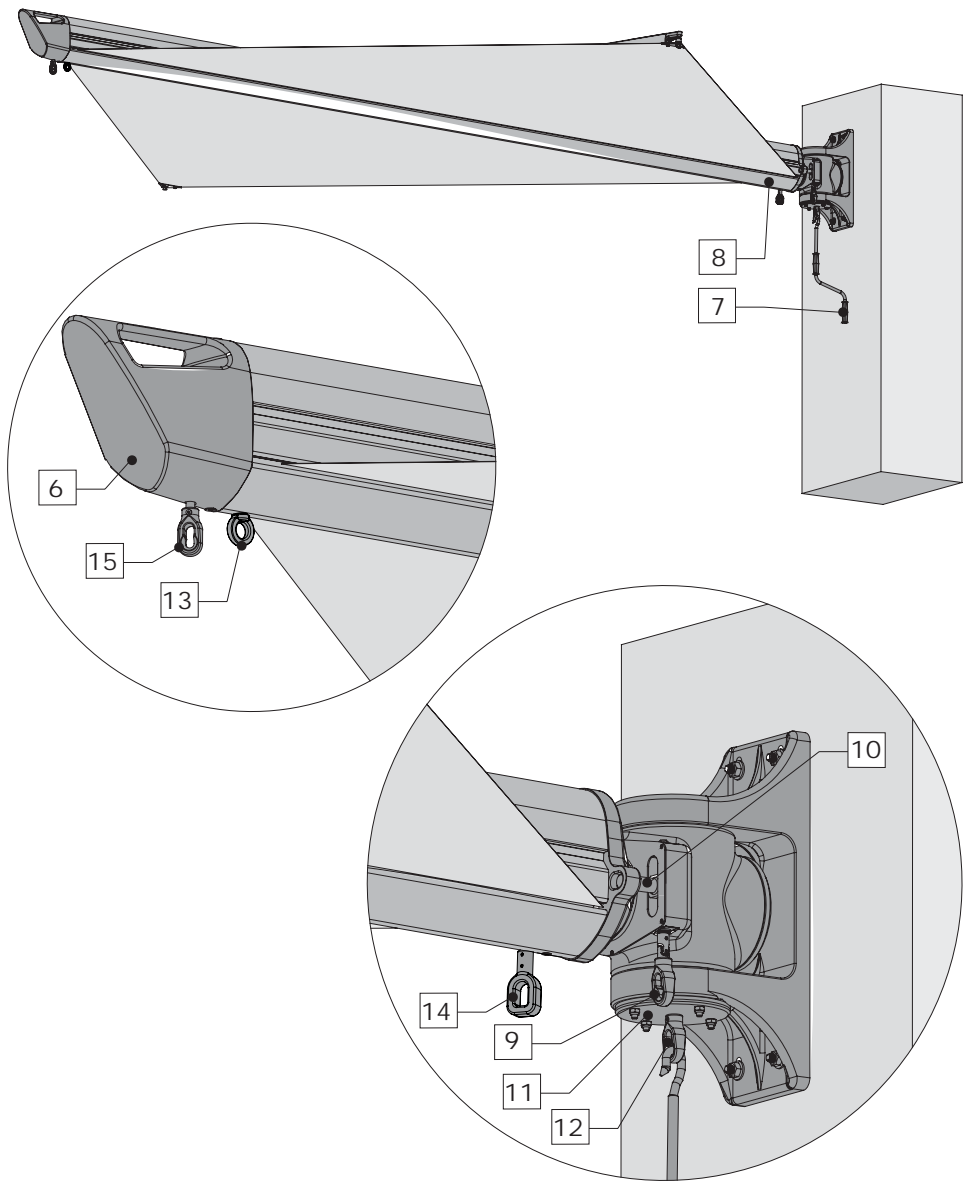
Item 14..... Emergency crank handle ring *

Item 15.....Ring for crank handle drive *

* only on system equipped with
manual operated crank hand
drive facility

See Page 22

Installation Instructions

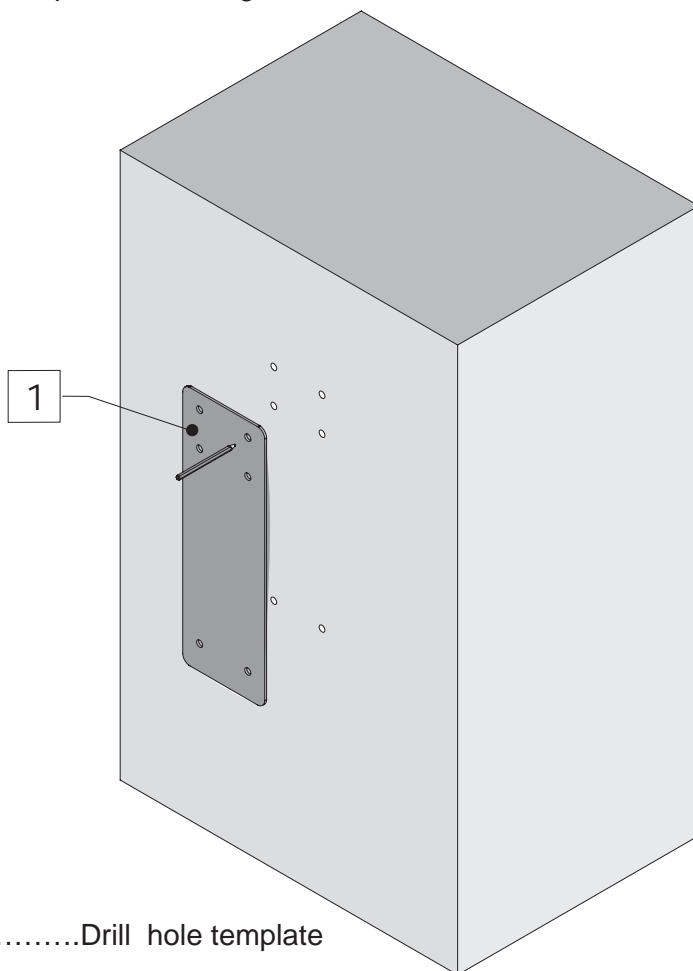


Installation Instructions

Installation of the awning on to concrete

Anchorage foundation: Concrete free of any cracks, standard reinforcement

Concrete compression strength classification: C 20/25



Item 1Drill hole template



With the aid of the drill hole template (1) the positions of the holes can be marked on the mounting surface. The holes can then be drilled.



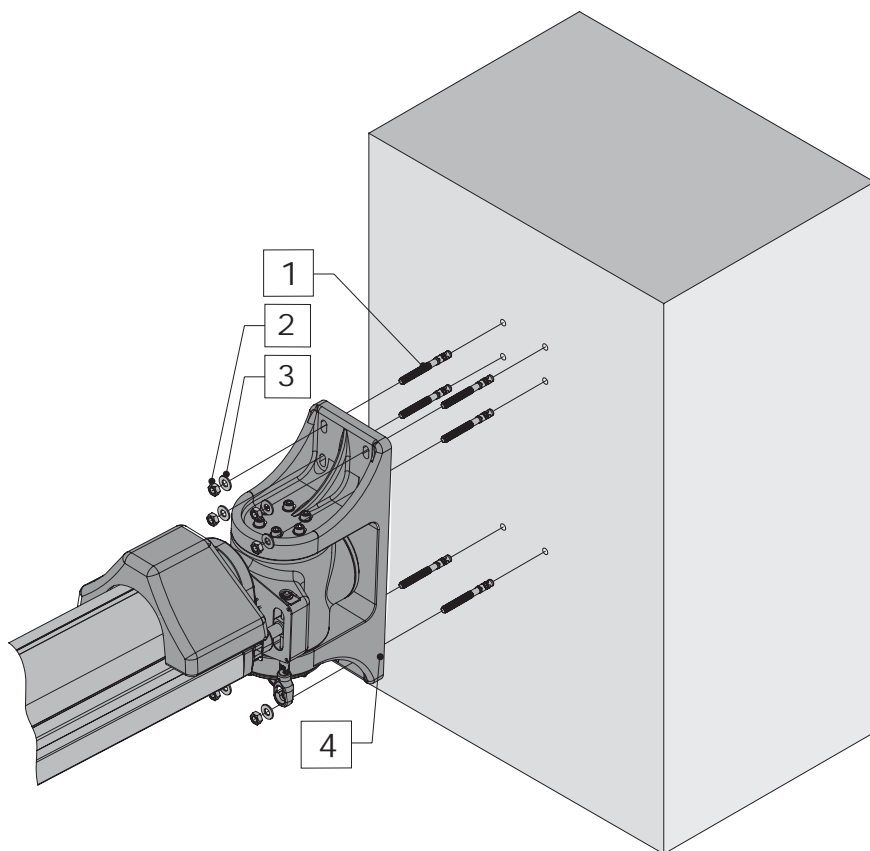
Choosing the location zone on walls for wall-mounted awnings, or the location for any floor foundation for “stand alone” type awnings is down to the responsibility of the customer.

Installation Instructions

Installation of the awning on to concrete

Anchorage foundation: Concrete free of any cracks, standard reinforcement

Concrete compression strength classification: C 20/25



Item 1.....Fischer anchorage bolt FAZ 12 / 20 A4

Item 2.....Washer to DIN 125A, 12 mm dia.

Item 3.....Hexagon nut to DIN 934, M12

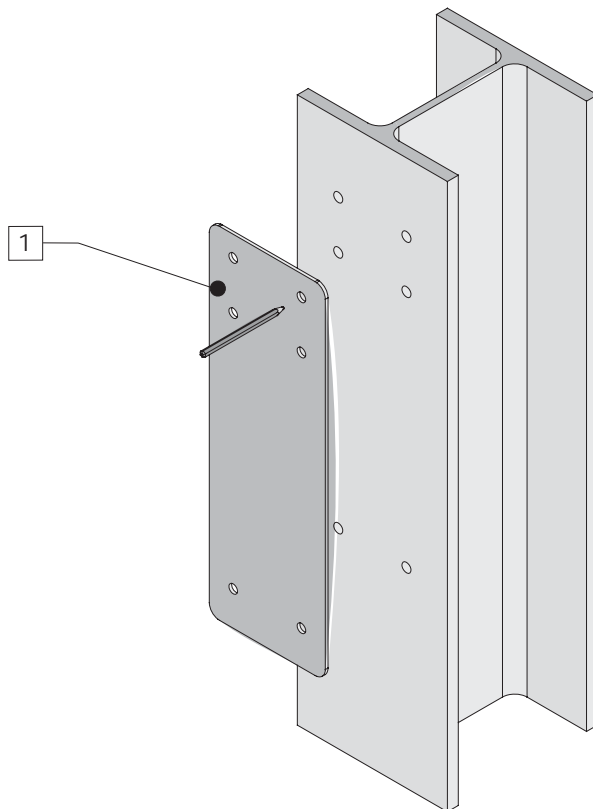
Item 4.....Wall bracket



Insert the anchorage bolts (1) into the holes. The awning must now be positioned, such that the anchorages fit into the pocket recesses of the wall bracket (4). The awning must now be fixed using the washers (2) and the hexagon nuts (3).

Installation Instructions

Installation of the awning mounted on steelwork structure



Item 1Drill hole template



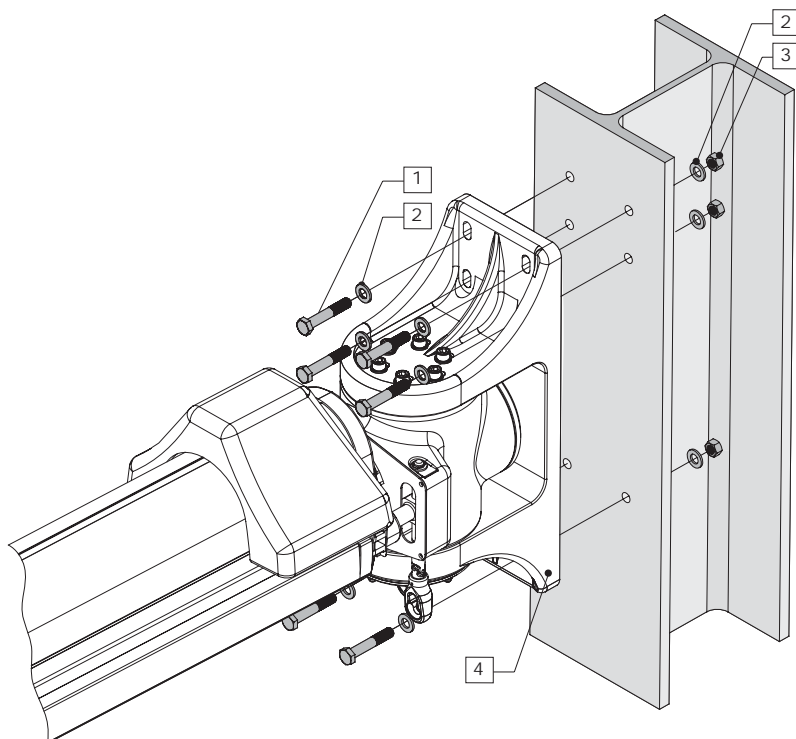
With the aid of the drill hole template (1) the positions of the holes can be marked on the mounting surface. The holes can then be drilled.



Choosing the location zone on walls for wall-mounted awnings, or the location for any floor foundation for “stand alone” type awnings is down to the responsibility of the customer.

Installation Instructions

Installation of the awning mounted on steelwork structure



Item 1..... Hexagon headed screw to DIN 931 M12x70

Item 2..... Washer to DIN 125A 12 mm dia.

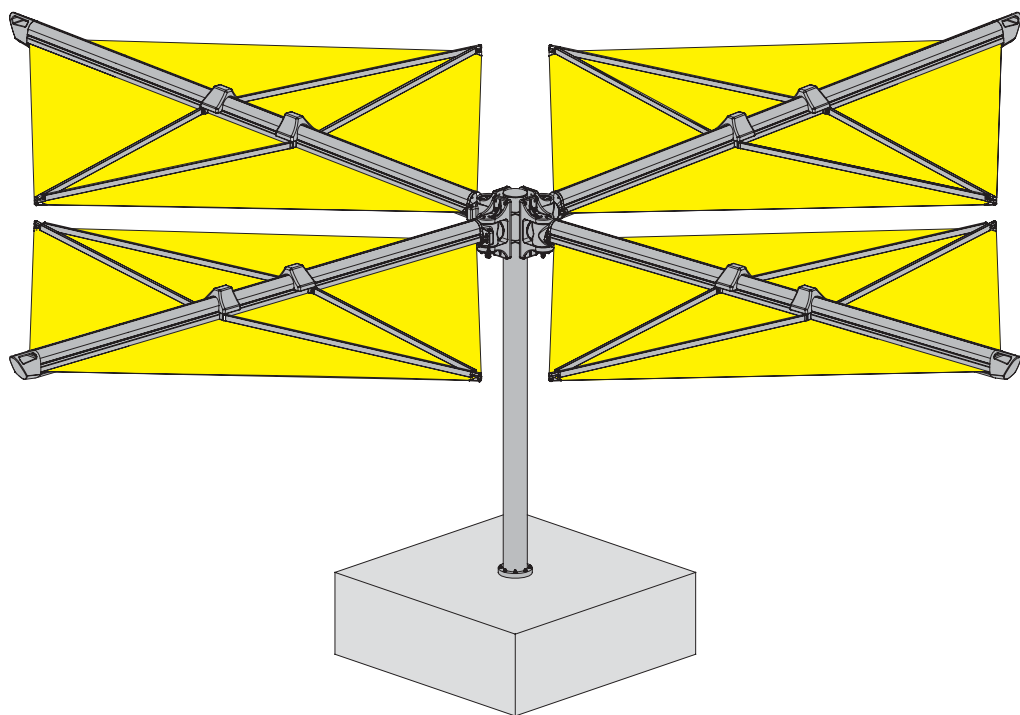
Item 3..... Hexagon nut to DIN934 M12

Item 4..... Wall bracket

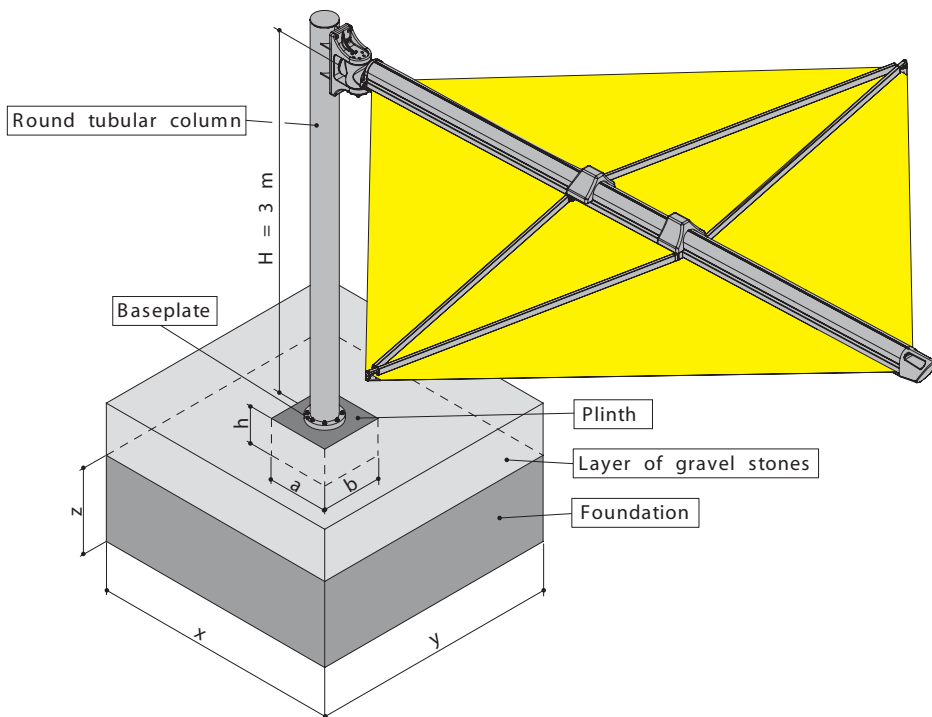


The awning must be positioned, such that the pocket recesses of the wall bracket (4) align with the drilled holes in the steelwork. The awning must now be fixed using the hexagon headed screws (1), the washers (2) and the hexagon nuts (3).

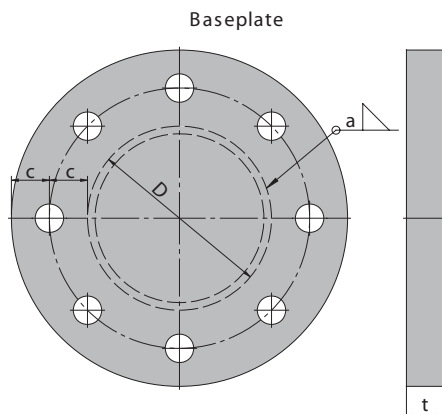
Free Standing Installation



Free Standing Installation



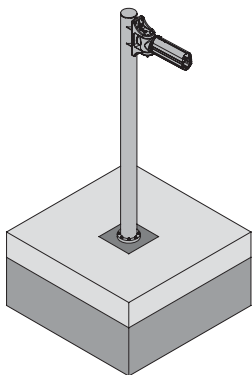
- Under edge of the foundation to be on frost line (by adjusting the depth of the plinth)
 - 15 cm of compacted gravel beneath the base of the foundation
 - Reinforce the foundation and the plinth in a crosswise manner.
- (Foundation: Iron bars for reinforcing the concrete - 10/30;
Plinth: $8 \times D = 12 \text{ mm}$ + iron bars for reinforcing the concrete - 10/20)



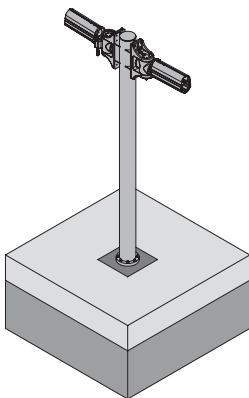
Installation options for Free Standing boom system

Freestanding boom

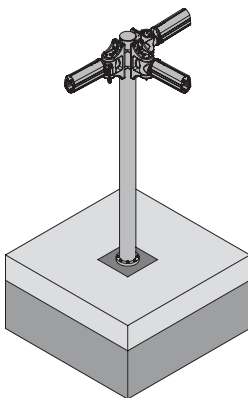
1 boom



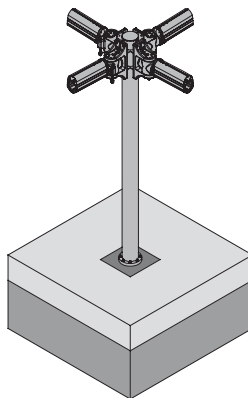
2 boom



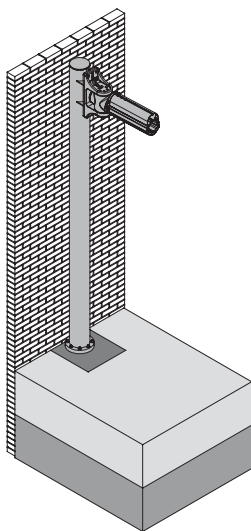
3 boom



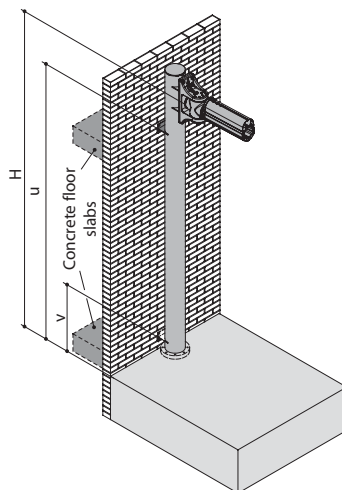
4 boom



Boom with lateral restraint



Boom with wall-mounting



Single boom with wall mounting can only be sanctioned and released following consultation and after stress calculations have been carried out. The installation can be either fixed twice to the wall or just one fixture to the wall and one to the Jground. Nevertheless, in so doing, the substrates for installation and the pitches for the fixings are paramount.

Dimensions and Measurements

boom1. 4.0m

Free standing

Qty. of booms 4.0m	Foundation dimensions					Floor mounted		Baseplate		Welded seam a (fillet weld) [mm]
	Plinth a = b [m]	h [m]	Foundation x y z [m] [m] [m]			Column D [mm]	Anchorage forces* Fz,c [kN]	t [mm]	c [mm]	
1	0.50	0.50	1.40	1.40	0.50	RR 139.7 x 5.0	21.4	25	35	4
2	0.50	0.50	1.75	1.75	0.50	RR 168.3 x 5.0	35.4	30	35	4
3	0.50	0.50	1.70	1.70	0.70	RR 168.3 x 8.0	44.2	30	35	5
4	0.50	0.50	1.80	1.80	0.70	RR 193.7 x 4.0	44.7	30	35	5

Laterally restrained

Qty. of booms 4.0m	Foundation dimensions					Floor mounted		Baseplate		Welded seam a (fillet weld) [mm]
	Plinth a = b [m]	h [m]	Foundation x y z [m] [m] [m]			Column D [mm]	Anchorage forces* Fz,c [kN]	t [mm]	c [mm]	
1	0.50	0.50	1.50	1.20	0.50	RR 139.7 x 5.0	21.4	25	35	4

boom2. 4.5m

Free standing

Qty. of booms 4.5m	Foundation dimensions					Floor mounted		Baseplate		Welded seam a (fillet weld) [mm]
	Plinth a = b [m]	h [m]	Foundation x y z [m] [m] [m]			Column D [mm]	Anchorage forces* Fz,c [kN]	t [mm]	c [mm]	
1	0.50	0.50	1.50	1.50	0.50	RR 139.7 x 6.3	26.9	25	35	5
2	0.50	0.40	1.75	1.75	0.60	RR 168.3 x 6.3	44.5	30	35	5
3	0.50	0.30	1.80	1.80	0.70	RR 168.3 x 8.8	55.6	35	35	6
4	0.50	0.30	1.90	1.90	0.70	RR 193.7 x 6.3	56.1	35	35	6

Laterally restrained

Qty. of booms 4.5m	Foundation dimensions					Floor mounted		Baseplate		Welded seam a (fillet weld) [mm]
	Plinth a = b [m]	h [m]	Foundation x y z [m] [m] [m]			Column D [mm]	Anchorage forces* Fz,c [kN]	t [mm]	c [mm]	
1	0.50	0.50	1.55	1.30	0.50	RR 139.7 x 6.3	26.9	25	35	5

* Tensile loading per anchorage - with 8 anchorage points per baseplate

Dimensions and Measurements

boom3. 5.0m

Free standing

Qty. of booms 5.0m	Foundation dimensions					Floor mounted					Welded seam a (fillet weld) [mm]
	Plinth		Foundation			Column D [mm]	Anchorage forces* Fz,c [KN]	Baseplate			
	a = b [m]	h [m]	x [m]	y [m]	z [m]			t [mm]	c [mm]		
1	0.50	0.50	1.60	1.60	0.50	RR 168.3 x 4.0	27.5	25	35	4	
2	0.50	0.35	1.80	1.80	0.65	RR 168.3 x 6.3	54.5	35	35	6	
3	0.50	0.30	1.85	1.85	0.70	RR 193.7 x 6.3	59.4	35	35	6	
4	0.50	0.30	1.95	1.95	0.70	RR 193.7 x 6.3	69.4	40	40	6	

Laterally restrained

Qty. of booms 5.0m	Foundation dimensions					Floor mounted					Welded seam a (fillet weld) [mm]
	Plinth		Foundation			Column D [mm]	Anchorage forces* Fz,c [KN]	Baseplate			
	a = b [m]	h [m]	x [m]	y [m]	z [m]			t [mm]	c [mm]		
1	0.50	0.50	1.70	1.45	0.50	RR 168.3 x 4.0	27.5	25	35	4	

boom4. 5.5m

Free standing

Qty. of booms 5.5m	Foundation dimensions					Floor mounted				
	Plinth		Foundation			Column D [mm]	Anchorage forces* Fz,c [kN]	Baseplate		Welded seam a (fillet weld) [mm]
	a = b [m]	h [m]	x [m]	y [m]	z [m]			t [mm]	c [mm]	
1	0.50	0.50	1.65	1.65	0.50	RR 168.3 x 4.0	32.3	25	35	4
2	0.50	0.35	1.90	1.90	0.65	RR 168.3 x 6.3	64.1	40	40	6
3	0.50	0.30	1.95	1.95	0.70	RR 193.7 x 6.3	69.9	40	40	6
4	0.50	0.30	2.05	2.05	0.70	RR 193.7 x 8.0	81.7	40	40	7

Laterally restrained

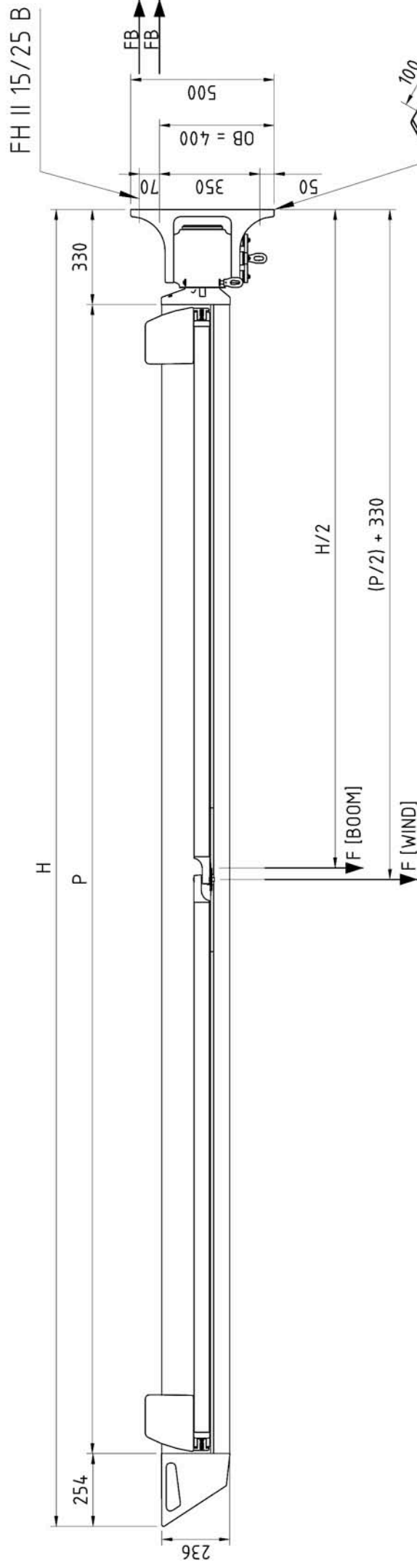
Qty. of booms 5.5m	Foundation dimensions					Floor mounted					Welded seam a (fillet weld) [mm]
	Plinth		Foundation			Column D [mm]	Anchorage forces* Fz,c [KN]	Baseplate			
	a = b [m]	h [m]	x [m]	y [m]	z [m]			t [mm]	c [mm]		
1	0.50	0.50	1.70	1.45	0.50	RR 168.3 x 4.0	32.3	25	35	4	

* Tensile loading per anchorage - with 8 anchorage points per baseplate

Verleiter	
E / K	1

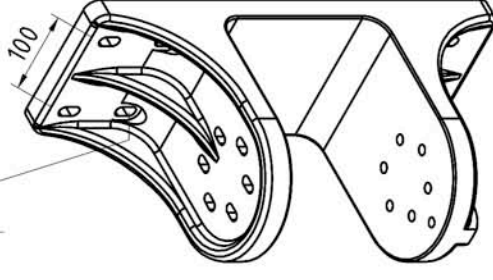
HELLA	
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AWDT	
WM	
MONT	
MARK	
KALK	

RAU	
GL	
VERT	
PROD	
QW	
AV	
EINK	
MAT	
AB	
AWDT	
WM	
MONT	
MARK	
KALK	

[illegible]

$$M = (F[BOOM] \times H/2) + (F[WIND] \times (P/2 + 330))$$

FB = M / OB / ANZAHL BEFESTIGUNGEN


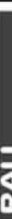


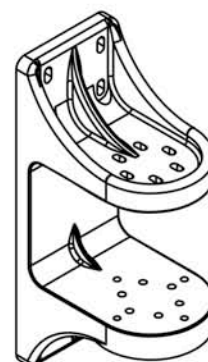
Model	P [m]	H [m]	F [Wind] [N]	F [Boom] [N]	M [Wind] [Nm]	M [Boom] [Nm]	M Total [Nm]	Bolts [quantity]	OB [m]	FB [kN]
boom 40	4,0	4,584	595,0	1235,5	1386,4	2831,7	4218,0	4,0	0,4	2,64
boom 45	4,5	5,084	770,0	1315,4	1986,6	3343,6	5330,2	4,0	0,4	3,33
boom 50	5,0	5,584	945,0	1395,3	2674,4	3895,5	6569,9	4,0	0,4	4,11
boom 55	5,5	6,084	1057,0	1472,9	3255,6	4480,6	7736,1	4,0	0,4	4,84

P...Profile length

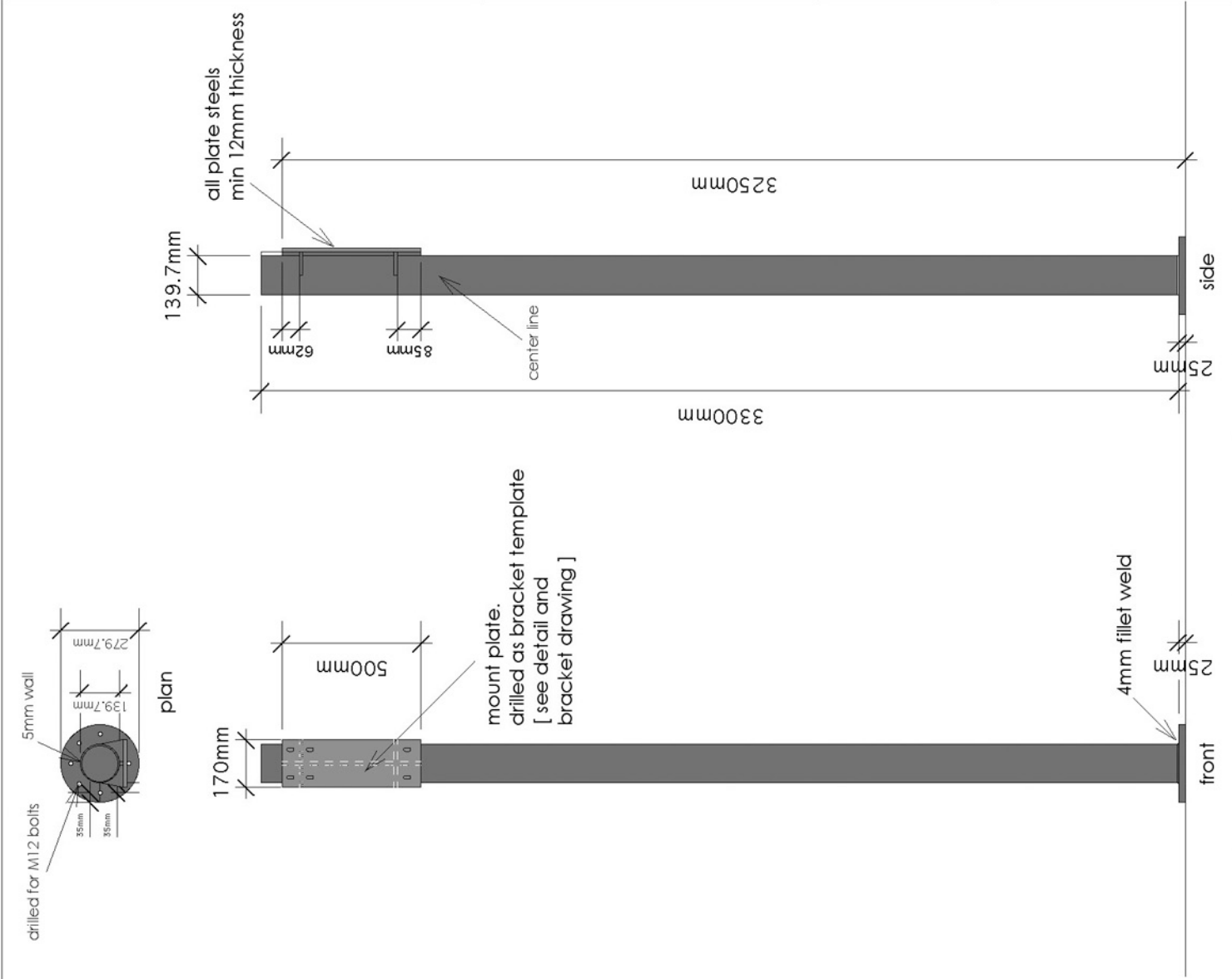
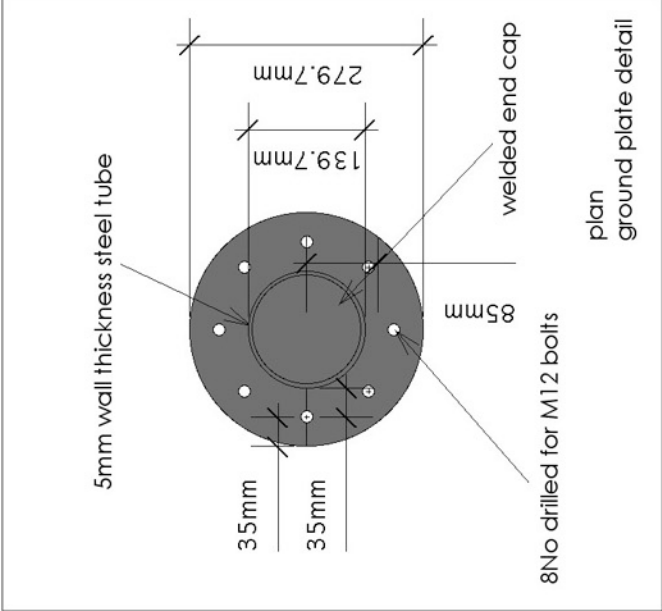
H...Total length

FB.. Extraction force per bolt

 Jalousien. Markisen. Rollläden.				Werkstoff: Volumen: mm ³		Fläche: mm ²	
Erstellungsdatum 16.04.2007		Name GANDER BERND		Oberfläche:		PB-Umfang: mm	
FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR		Maßstab: 1:20 Norm:		Modell:		Gewicht:	
Title: MoGaCo boom Canopy Extraction Forces							
Zchg. Nr: 03503005				Änderung:		Freigabe: 16.04.2007	

[illegible]

 Jalousien. Markisen. Rollläden.				Werkstoff: AlSi09Mg	Volumen: -	Fläche: -
				Oberfläche: BESCHICHTET	PB-Umfang: -	
				Modell: BOOM	Gewicht: -	
Erstellungsdatum	Name	Maßstab: 1:5	Benennung: WANDKONSOLE MoGaCo boom			
09.07.2007	KONSTRUKTION	Norm: DIN ISO 2768-m-K	Wall Bracket			
FÜR DIESE ZEICHNUNG BEHALTEN WIR UNS ALLE RECHTE VOR.			Zchg. Nr: 03500501	Änderung:	Freigabe: -	



Main tube structure from: 139.7mm diam steel 5mm wall thickness.	Mount plate from min 12mm steel welded to tube.	Base plate from 25mm steel, welded with 4mm flange weld.	Power cable may be fed through support tube. Suitable holes required.	NOTE: <u>This drawing is an interpretation of the support structure calculations set out in the Table of Sizes engineered by Rau Arabella, manufacturer of boom.</u> <u>It is the responsibility of the contractor to engineer suitable supports for specific locations.</u> <u>See associated drawings for loadings and weights.</u>	MoGaCo boom Free standing ground mounted support Mast For 4.0m boom unit <u>only</u> .	The Modern Garden Company Millars 3 Southmill Road Bishop's Stortford Herts. CM23 3DH 01279 653 200
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Commissioning / Functionality Check



Deploy and retract the awning completely.



Whilst deploying the awning for the first time, nobody must be in the zone of deployment or beneath the awning.

Upon deployment for the first time, inspect the fixing anchorage and wall-mounted brackets.

Never use the automated controls or switches on awnings having electrical powered drive motors for the test trials, where the awning is not in the field of vision of the operator.



We recommend the use of a test cable for the provisional electrical connection of the motor.



Check all the settings.

Inspect all the screw connections for security.

Check if the pivot arm on retraction of the awning strikes the brackets or support bearing. If it does, protect these zones by applying the enclosed adhesive-coated buffer stop.

Clean the awning sections (refer to “Tips on Care”).

Hand over this Manual to the user, together with the instructions issued by the manufacturers for the motor, switch and control systems.

Provide brief induction to the user, whereby the user is made fully aware of instructions on safety and use of the awning.

Record and document the attained wind resistant classification (refer to the “Transfer Protocol”).

Ensure there is documented evidence available concerning the correct type / model of the awning, as well as the installation and that the induction tuition, heeding the notes on safety, has been carried out (refer to the “Transfer Protocol”).

Commissioning / Functionality Check



Disassembly is accomplished in the reverse sequence to that of installation.



When disassembling and disposing of the awning, the pivot arms under tension must be secured against unintentional deployment before disassembly takes place.

Guidelines for electrical drives



Note:

Plug-in drive motors are not, in some respects, compatible with other domestic electrical appliances / consumer units!

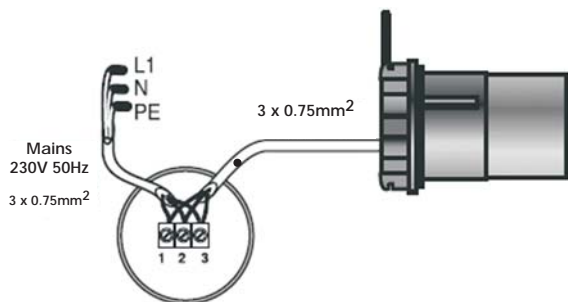
- Never operate the drives in tandem.
- Never operate simultaneously with on and off command signals.
- Maintain approx. 0.5 second dwell when switching between on and off commands (is often disregarded with instabus EIB-systems).
- Switches for the awning drive motors must, under all circumstances, be mechanically and electrically interlocked.
- The drives conform to VDE 0875 Teil 1/ (part 1) 11.84 and EG Directives 82/499/EEG funktentstört (radio interference suppressed). In operation with other equipment, which has sources of interference, the installer must, due to the obligation to suppress radio interference, ensure that the entire system complies with the currently valid regulations.
- The drive motors are splash proof protected. If used in rooms / zones subjected to wet conditions the VDE regulations and A. 0100/Teil 701, 702 must be heeded, which conform to the local EVU and the TÜV.



Noise emission from the drive motors is less than 70 dB (A).

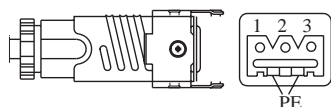
Wiring diagram for boom equipped with radio controlled drive

Connection of the Motor system



Colour coding		
1	Brown	Live conductor - L
2	Blue	Neutral - N
3	Yell / Grn	Earth - PE

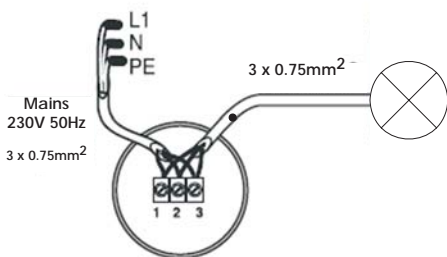
Connecting the Motor with Hirschmann plug connector



Hirschmann plug connector		
1	Blue	Neutral - N
2	Brown	Live conductor - L
3		None
PE	Yell / Grn	Earth conductor - PE

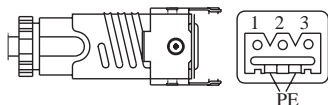
Wiring diagram for boom equipped with lighting system

Connection of the lighting system



Colour coding		
1	Blue	Neutral - N
2	Brown	Live conductor - L
3	Yell / Grn	Earth conductor - PE

Connecting the Lights with Hirschmann plug connector



Hirschmann plug connector		
1	Blue	Neutral - N
2	Brown	Live conductor - L
3		None
PE	Yell / Grn	Earth conductor - PE



Details concerning electrical connections, operating instructions and programming are given in the enclosed documentation supplied by the manufacturer.

Transfer Protocol (for the installer)

Dear purchaser of this awning,

We are pleased that you have chosen an arabella Awning. Our awnings are manufactured with meticulous care and embrace technical know-how gained over many years of experience.

Your awning of type

Model

deployed projection of

is in accordance
with DIN EN 13561

with a wind resistance classification

and handed over on

The Operating and Installation Instructions have been handed over, and must be read before using the product..

Induction tuition on operation and use of the system has taken place.

Reference has been given concerning the safety notes to be heeded, which relate to the product.

Awning Supply Company

Name	Date
Location	Signature

Awning Purchaser

Name	Forename
Street	House Number
Post Code	Town / Location
Date	Signature

Transfer Protocol (for the user)

Dear purchaser of this awning,
We are pleased that you have chosen an arabella Awning. Our awnings are manufactured with meticulous care and embrace technical know-how gained over many years of experience.

Your awning of type
Model
deployed projection of
is in accordance
with DIN EN 13561
with a wind resistance
classification
and handed over on

The Operating and Installation Instructions have been handed over, and must be read before using the product..

Induction tuition on operation and use of the system has taken place.

Reference has been given concerning the safety notes to be heeded, which relate to the product.

Awning Supply Company

Name

Date

Location

Signature

Awning Purchaser

NameForename

StreetHouse Number

Post CodeTown / Location

DateSignature



The Modern Garden Company supplies contemporary outdoor furniture.



The Modern Garden Company
 Millars 3
 Southmill Road
 Bishop's Stortford
 Hertfordshire
 CM23 3DH
 01279 850 246
info@modern garden.co.uk
www.mogaco.co.uk

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