



Technical data

Cassette awning CA430

HAROL®

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Harol reserves the right to make alterations of the product without prior notice.

1. Generalities

- The CA430 is a folding arm screen of the cassette type.
 - the screen is fully sealed off all around
 - the vital components are protected against harmful external influences
- The construction is characterised by :
 - the fully aluminium housing to which the arms and supports are attached
 - the fabric roller and the fabric are supported across the whole width and protected by an aluminium fabric roller support

2. The profiles

2.1 The fabric roll

- Material: a round welded tube manufactured from a zinc-plated zendzimir strip
- Function: the rolling up and out of the fabric
- Provided with a slot for the attachment of the fabric
- Diameter: Ø78 x 1mm

2.2. The Clip On-Clip Off profile

- Material: extruded PVC clips
- Function: the fastening of the fabric to the fabric roll without the use of screws
- Thanks to this system it is easy to subsequently replace the fabric

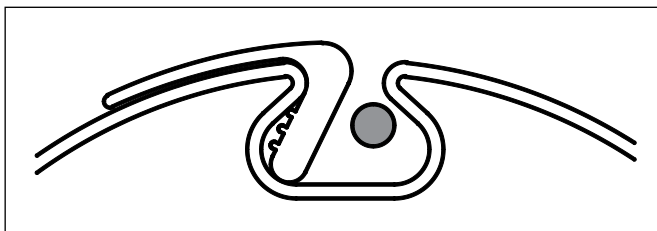


Fig. 1 : "Clip On - Clip Off" profile

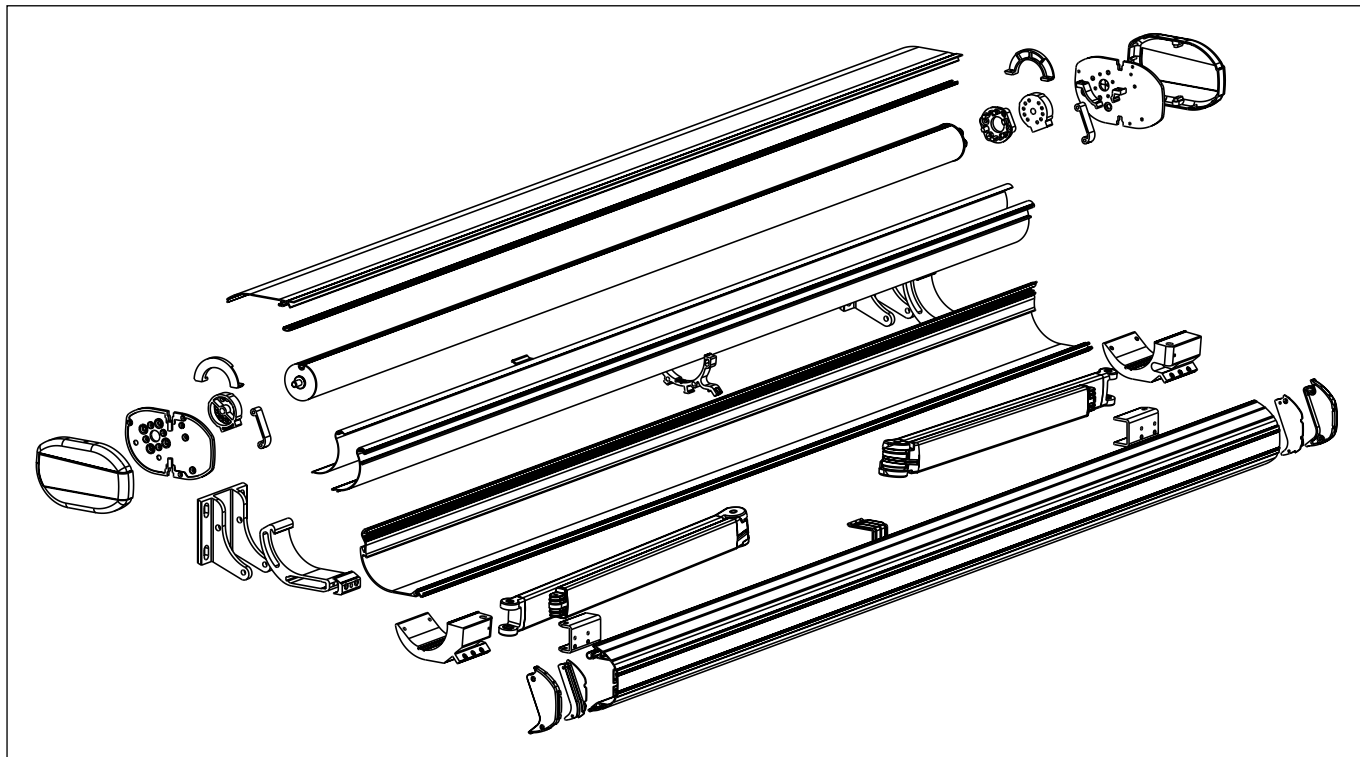


Fig. 2 : Exploded view CA430

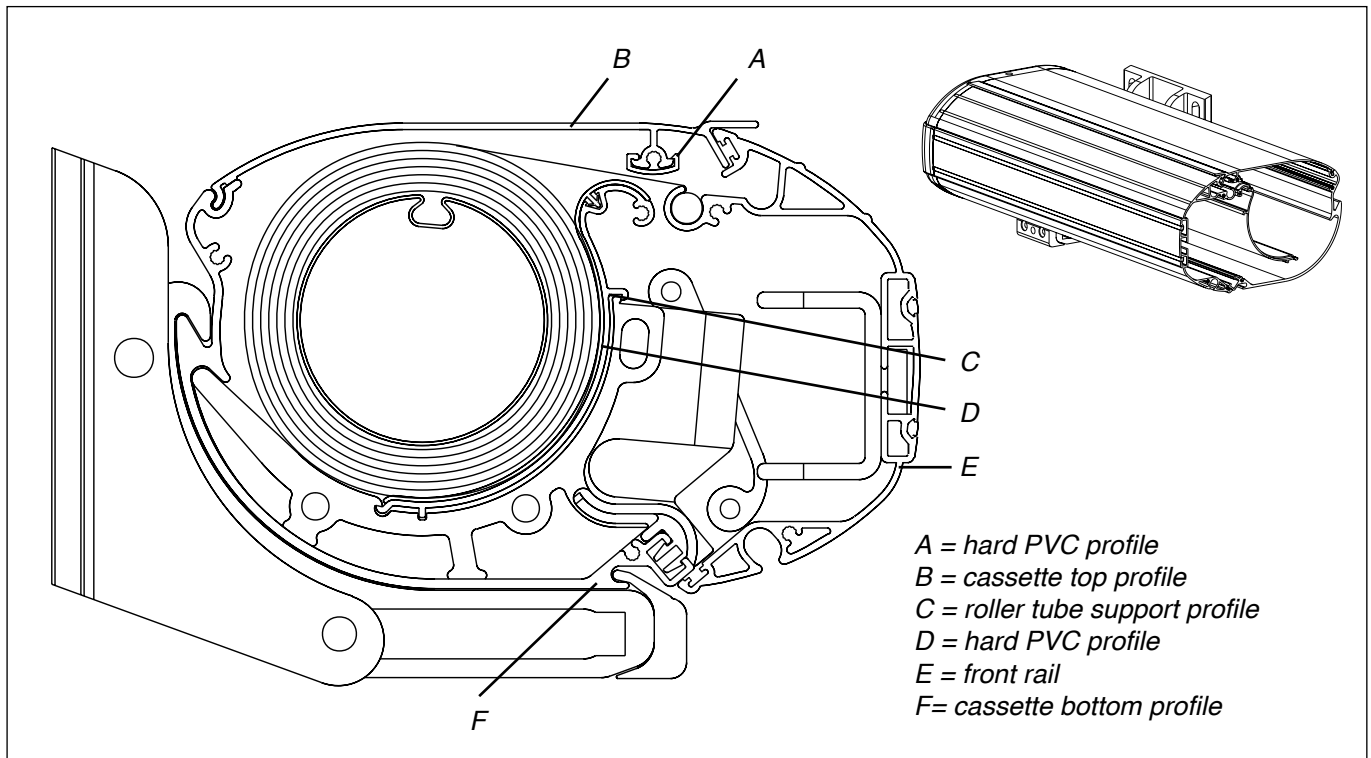


Fig. 3 : The profiles

2.3. The housing/bottom profile

- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function:
 - seals visibly the bottom of the screen
 - carrying base profile on which the other components are fixed
- Provided with:
 - a slot over the whole width on the rear side for hooking in the wall supports
 - a fastening slot for fixing the arm consoles and intermediate supports

2.4. The housing/cover profile

- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function: covers the fabric over the whole width
 - On the inside provided with a hard PVC profile:
 - better guidance of the fabric
 - increases the life of the fabric
- Hinged fixed to the bottom profile
- Fixed on both sides of the side supports

2.5. The extension pole

- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function: closure of the awning at the front
- Provided with:
 - At the top:
 - a slot for the fixing of the fabric

- a slot for a rubber sealing profile
- a slot to accommodate penetrating rainwater
- At the bottom:
 - a slot for fixing the valance
 - a slot for a rubber sealing profile
- At the front:
 - provided with two grooves, in which standard PVC colour strips are inserted
- At the ends the pole is finished with aluminium caps:
 - always coated in the same colour as the extension pole
 - a synthetic channel is provided for the drainage of rainwater

2.6. Fabric roller support profile

- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function:
 - supporting the rolled up fabric
 - extra protection by covering the fabric on the front side
- On the inside provided with a hard PVC profile:
 - better guidance of the fabric
 - increases the life of the fabric
- Is mounted on various supports that are fixed to the bottom profile.

3. Other components

3.1. The folding arms

- Connect the box and the extension pole
- Available with the following drops: 1500 - 2000 - 2500 - 3000 - 3500 mm
- Up to a width of 6000 mm two arms are mounted, from 6001 mm up to 7000 mm 3 arms are mounted
- The arm profiles:
 - Material: extruded aluminium, powder coated
 - Colour: coated in the chosen colour of the awning (see colour card)
- The hinges:
 - Material: of a high pressure cast aluminium alloy
 - Colour: coated in the chosen colour of the awning (see colour card)
 - Hinge on durable slide bearings of sintered bronze, provided with a PTFE sliding layer
 - The most heavily loaded parts are also thermally treated
- The springs and the steel cables:
 - Material: of high quality spring steel which has been zinc-plated before-hand
 - The diameter is always in relation to the force applied
 - The power of both springs is transferred via a wedge to two zinc-plated steel cables:
 - ensure a doubling of the power
 - considerable extension of the operating life

3.2. Arm fastening

- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function: connection between the arms and the housing

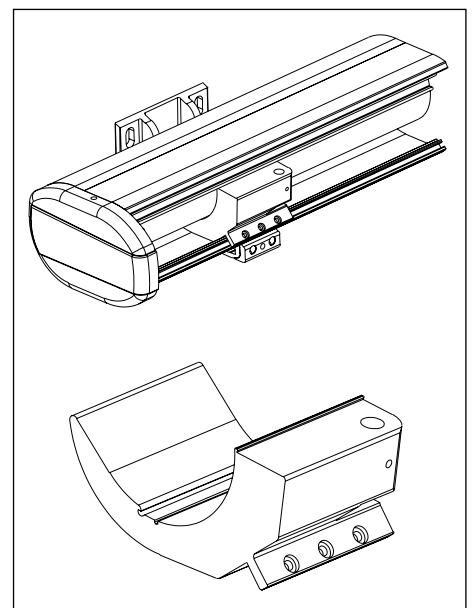


Fig. 4 : Arm fixing support

3.3. The angular displacement system

- Function: makes the setting of the angle possible
- Is integrated in the wall console:
 - the angular displacement can be effected easily by one person
 - the awning hinges in its totality
 - it is not necessary to readjust the extension pole
- The range for the angle is 10° to 45°
- The system also ensures complete protection against the flapping and dropping of the arms

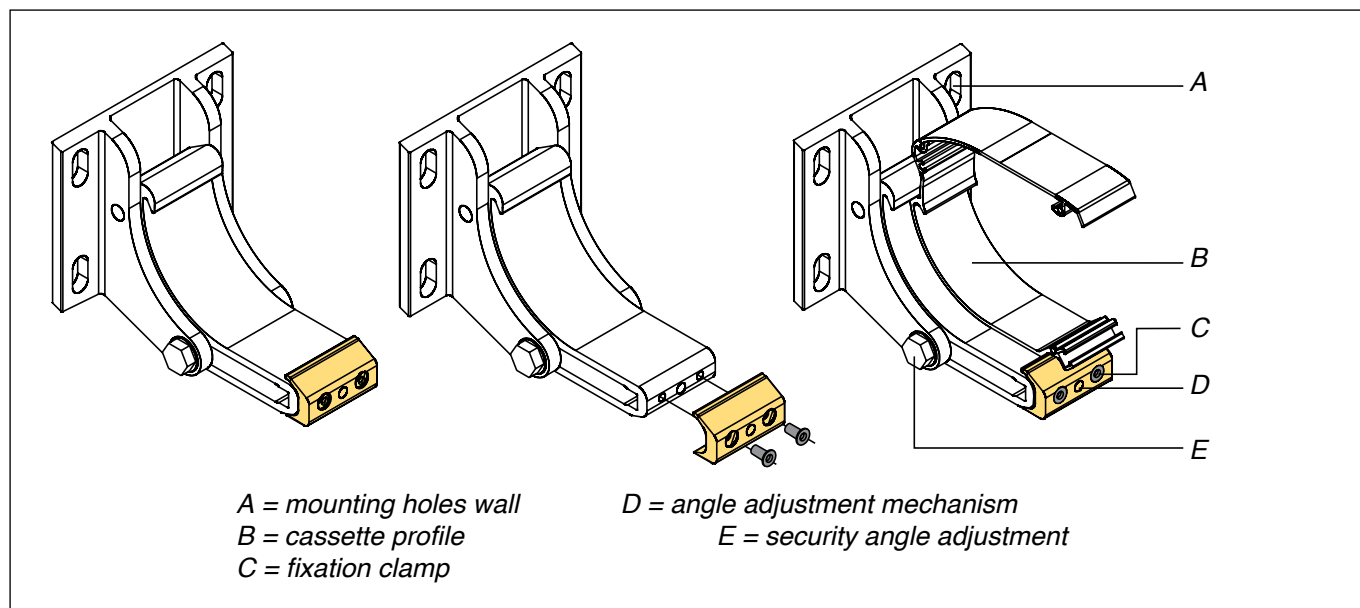


Fig. 5 : The angular displacement system

3.4. The fastening supports

- To fix the screen to the base surface required, a number of special fastening supports are available:

- Wall support (standard):

- Is used for normal assembly against a wall
- Material: extruded aluminium, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Width: 165 mm and are provided with four fastening holes with slot
- The number of wall supports supplied always depends on the screen width
- The exact position of the wall supports is mentioned in the table "position of the wall supports"
- It is important that the assembly supports are positioned exactly in the centre behind the arm fastening

Awning width	Number of wall supports
2000 - 4500 mm	2
4501 - 6000 mm	3

Table 1 : Number of wall supports

- Wall supports with filling plate (option):

- For a better alignment of the wall supports on the wall
- The wall supports are provided with 4 set screws

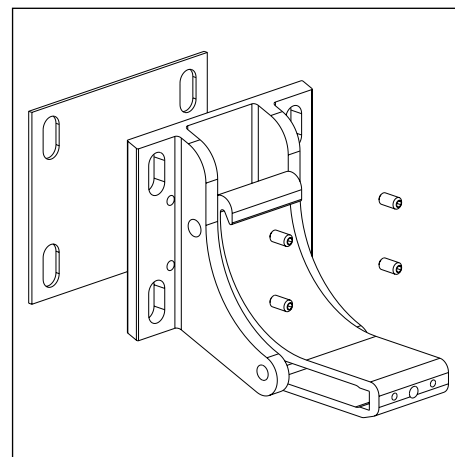


Fig. 6 : Fixing bracket with filling plate

- **Ceiling brackets** (option):
 - For assembly against a ceiling, under a balcony
 - Material: of cast aluminium profiles, powder coated
 - Colour: coated in the chosen colour of the awning (see colour card)
 - Width: 164 mm and are provided with four fastening holes with slot
 - The ceiling bracket is always used together with the wall support
- **Roof truss** (option):
 - A special accessory for assembly against a truss
 - Material: extruded aluminium, powder coated
 - Colour: coated in the chosen colour of the awning (see colour card)
 - This roof truss is clasped between a left and a right roof truss
 - The roof truss support is always used together with the wall support

3.5. The side supports

- Material: of cast aluminium profiles, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function:
 - Lateral enclosure of the awning
 - The suspending of the operating device and the bearing
- The side support is screwed to the housing profiles
- A synthetic end stop is fitted against the side supports to receive the incoming extension pole

3.6. The covers

- Material: of cast aluminium profiles, powder coated
- Colour: coated in the chosen colour of the awning (see colour card)
- Function: the finishing of the side supports

3.7. PVC trims

- Standard: colour adapted to the chosen colour of the fabric
- Option: colour as desired
- Slide into the extension pole

3.8. Synthetic / rubber stopper

- On the bottom and top of the extension pole a rubber cushioning strip is provided along the whole length
- Double function:
 - Muffles the noise which ensures the soft closing of the awning
 - Seal to prevent rainwater from dripping in

3.9. Fastening material

- The folding-arm awnings produce a lot of pressure on the mounting surface. Therefore it is recommended to mount the awnings with chemical anchors (company Hilti, Würth,) or other mounting systems.

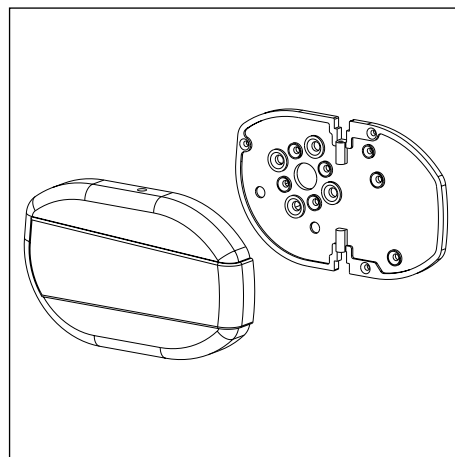


Fig. 7 : Cassette endplate and covering plate

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Position of the wall brackets CA430					
Extension 1500 mm	Extension 2000 mm	Extension 2500 mm	Extension 3000 mm	Extension 3500 mm	Distance X bracket
2000 - 2149	2500 - 2639	3000 - 3139	3500 - 3639	4000 - 4139	100 mm
2150 - 2449	2640 - 2739	3140 - 3239	3640 - 3739	4140 - 4239	150 mm
2450 - 2749	2740 - 2839	3240 - 3339	3740 - 3839	4240 - 4339	200 mm
2750 - 3049	2840 - 3049	3340 - 3439	3840 - 3939	4340 - 4439	250 mm
3050 - 3349	3050 - 3349	3440 - 3539	3940 - 4039	4440 - 4539	300 mm
3350 - 3649	3350 - 3649	3540 - 3649	4040 - 4139	4540 - 4639	350 mm
3650 - 3949	3650 - 3949	3650 - 3949	4140 - 4239	4640 - 4739	400 mm
3950 - 4249	3950 - 4249	3950 - 4249	4240 - 4339	4740 - 4839	450 mm
4250 - 6000	4250 - 6000	4250 - 6000	4340 - 6000	4840 - 6000	500 mm
6001 - 6149	6001 - 6149	6001 - 6149	6001 - 6149	6001 - 6149	100 mm
6150 - 6449	6150 - 6449	6150 - 6449	6150 - 6449	6150 - 6449	150 mm
6450 - 6749	6450 - 6749	6450 - 6749	6450 - 6749	6450 - 6749	200 mm
6750 - 6999	6750 - 6999	6750 - 6999	6750 - 6999	6750 - 6999	250 mm
7000	7000	7000	7000	7000	300 mm

X = distance side of cassette to middle of wall brackets

Table 2 : Position of the wall brackets

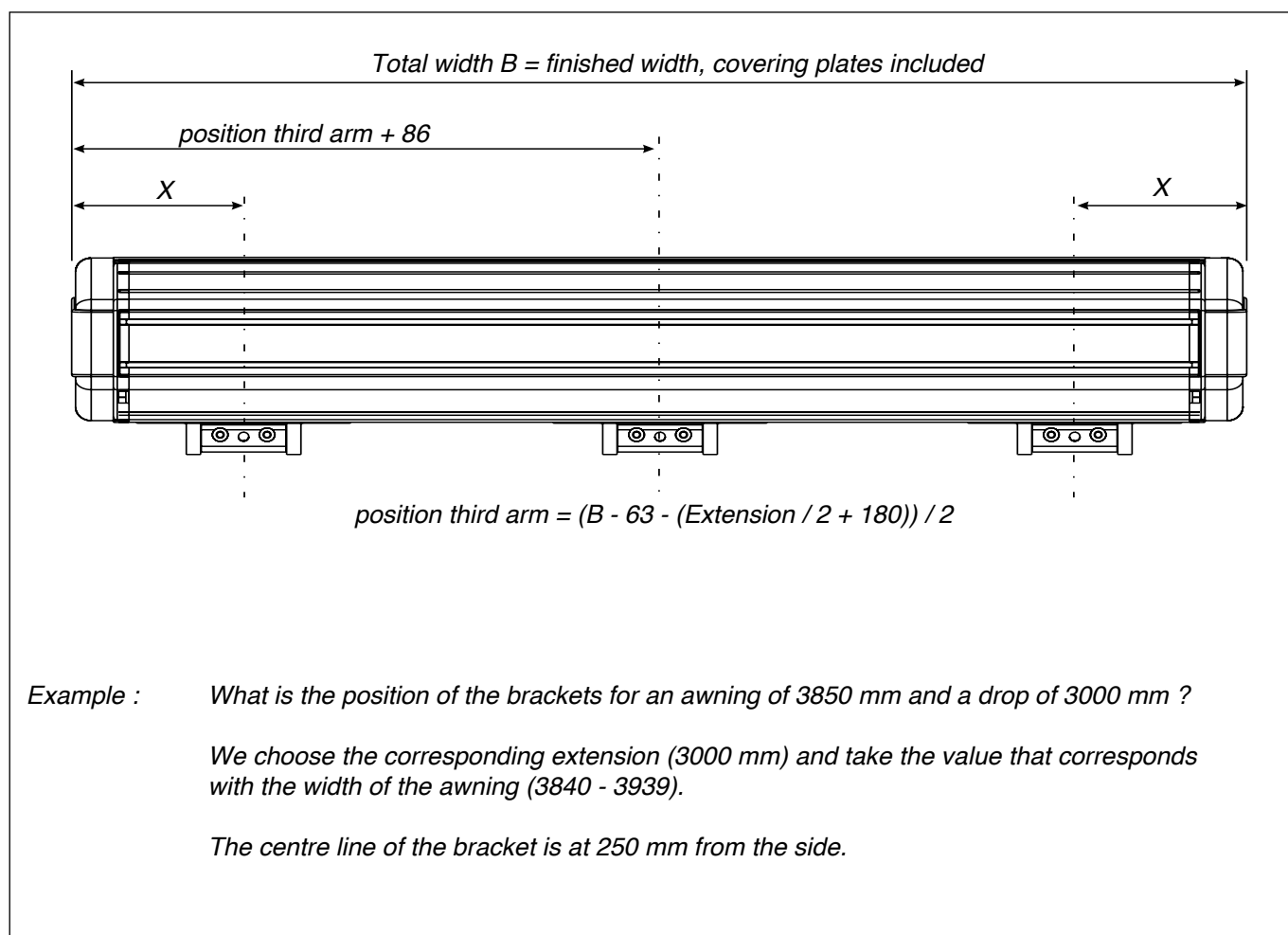


Fig. 8 : Position of the wall brackets

4. Minimum and maximum sizes

- Width:
 - Maximum: 7m
 - Minimum: depends on the chosen angle (Drop + 465 mm)
- Drop:
 - Maximum: 3,5m
 - Minimum: 1,5m
- Coupling 2 awnings is not possible

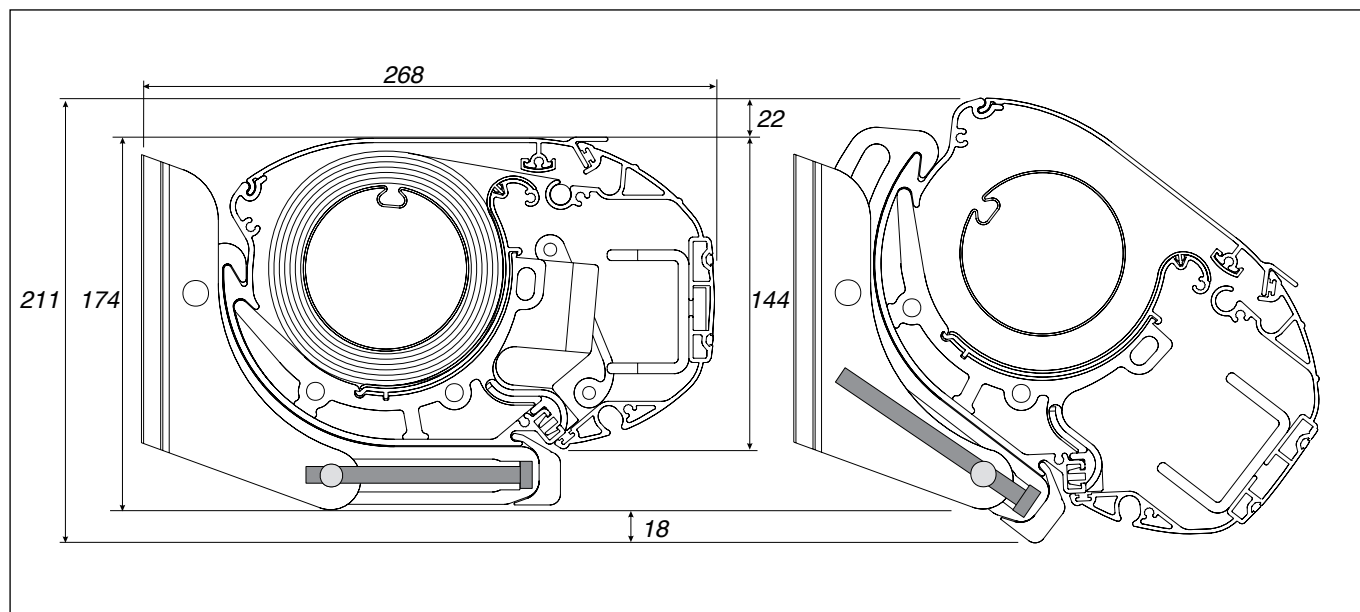


Fig. 9 : Minimum and maximum measures

5. Weight

The approximate weight: ± 18 kg per metre (width)

6. Operation

- Two types :
 - electric operation
 - crank handle operation
- Electrical operation
 - The standard motor is the Sunea IO motor, without push buttons and controlled with an IO transmitter.
 - IO transmitter.
 - 5m electric cable.
- Option:
 - without IO wall transmitter.
 - electric cable 10m instead of 5m.
 - other types of motors : Orea RTS - Orea WT

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Prod. Type	MOTORTYPE	OPTION	SURCHARGE	CABLE LENGTHS		
				3M	5M	10M
CA430	Sunea IO	A1281	-	-	S	X
	Orrea RTS	A1076	-	-	S	X*
	Orea WT	A2619	Minus price	S	X	X**

S: Standard X: Option

*: Without RTS wall transmitter

** : Without surface mounted switch

- For the automation or group controls of the awnings: see the Harol-Domotics-map

Remark: the motor is already adjusted in the fabric

- **Crank handle operation**
- **Standard:**
 - self-braking bevel wheel
 - transmission capacity of 4,8:1
 - end limiter built-in (prevents the fabric from rolling up wrongly)
 - laying hook of 1600mm
- **Option:**
 - longer laying hooks

7. Fabrics

Choice between two different qualities.

- **Acrylic:**
 - Construction: acrylic fibres, coloured in the mass
 - Colour: patterns and colours chosen from the standard collection
 - Weight: +- 290-300 g/m²
 - Thickness: +- 0,5mm
 - Confection:
 - vertical rows of 1200mm
 - side hems of 50mm
 - double step stitch with polyester thread
 - Mould-resistant and dirt-repelling

8. Measuring and assembly of an awning

8.1. Guidelines for the correct measuring of the awning

- The total width:
 - measured including side guards
 - the fabric is always less wide than the width of the awning indicated
- The drop:
 - measured from the rear side of the roller tube to the front side of the front rail
 - an assembled system always protrudes a little further from the wall than the drop indicated.
- For optimal sun shading an awning must protrude sufficiently past the window to the left and right.

8.2. Assembly

- Pay attention to the quality of the surface for assembly:
 - With poor walls, gas concrete, soft or hollow stone walls:
 - adapted fastening accessories are required
 - additional wall brackets are to be used
- Take account of the fact that the awning must be mounted at a sufficient height (min. 2500mm)
- The awning is to be adjusted to an angle between 10° and 45°:
 - account must be taken of sufficient run-out height.

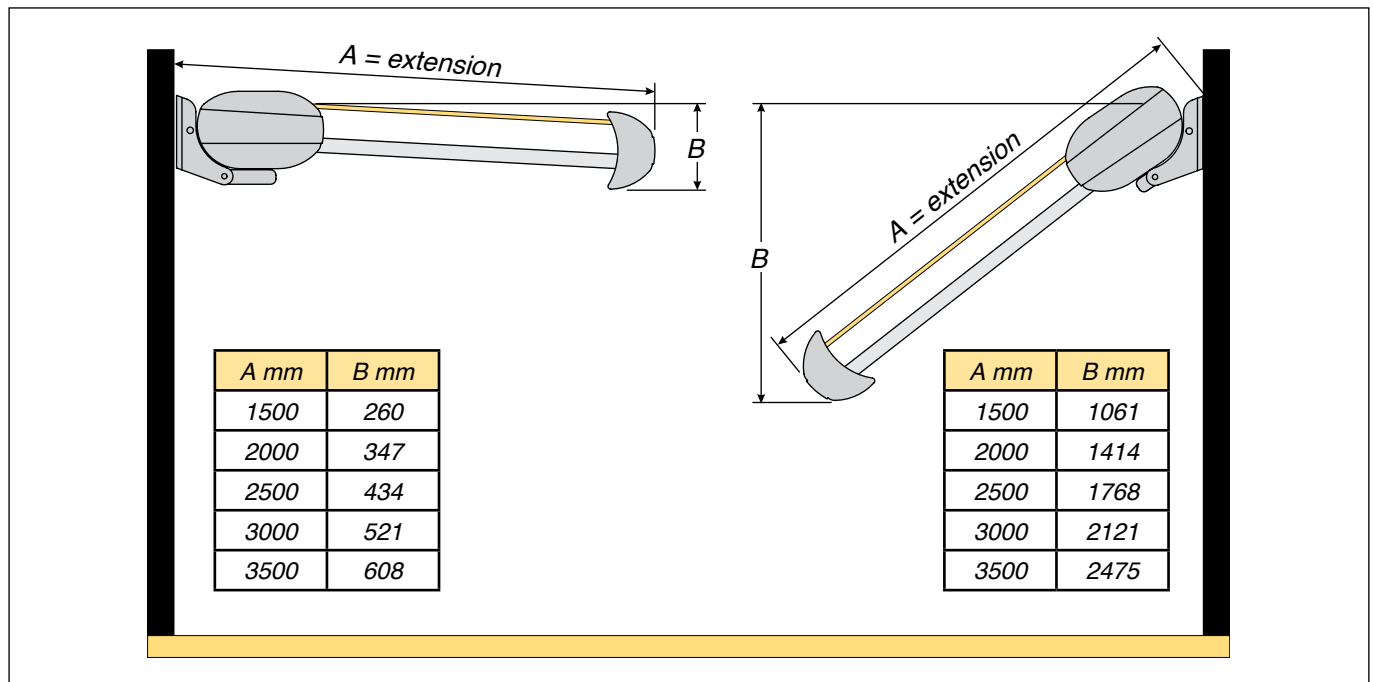


Fig. 10 : Minimum and maximum angles

9. Accessories

9.1. Valance

- Optional
- They are available in four different forms.
- The valances have a standard height of 250 mm

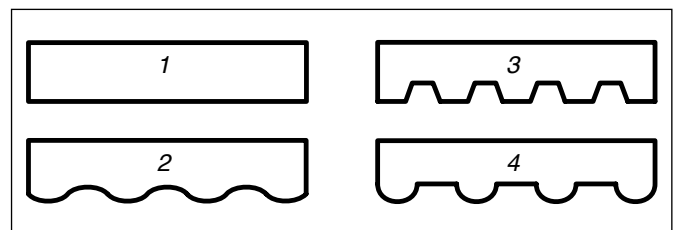


Fig. 11 : Formes of valance

9.2. Side flaps

- Optional
- The side flaps are fitted between the housing and the extension pole at the side of the awning
- The side flaps are available in two standardised forms or according to a drawing
- This can only be done when the awning is fully open

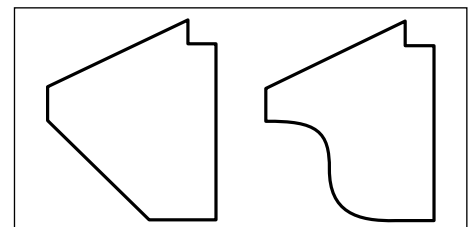


Fig. 12 : Lateral fabric

9.3. Lettering

- the fabric, valance and/or side flap can be provided with lettering (as an option)
- The valance height with lettering is 300 mm as standard.
- Ten diverse letter types are available.
- Special letter types and logos or drawings can be provided on request at extra cost.

Attention: Texts on striped fabrics and valances are often difficult to read. In this case uni-fabrics are best used.

10. Delivery

- The awning is delivered without fastening material
- To prevent damage during transportation all awnings are provided with extra protection in the form of plastic foil and fully packed in strong cardboard.

11. Use and maintenance

- Suitable use and maintenance increase the life of the awning.
 - do not use the awning as a rain or wind awning.
- Regular maintenance of the awning prevents unnecessary wear.
 - cleaning the frame: with soft water instead of aggressive substances, which may affect the coatings and protective layers.
 - clean the fabric:
 - with a stiff brush
 - stubborn stains are best removed with a tepid water and brown soap solution (rinse thoroughly with copious amounts of clean water)
- Let the awning dry fully before rolling it up (even after an unforeseen rain shower)

12. Security

For security reasons (injuries) it is recommended to mount the awning according to the rules

13. TÜV-quality label

Both the electric and manual version of the CA430 are TÜV-tested and have achieved the TÜV-quality label.

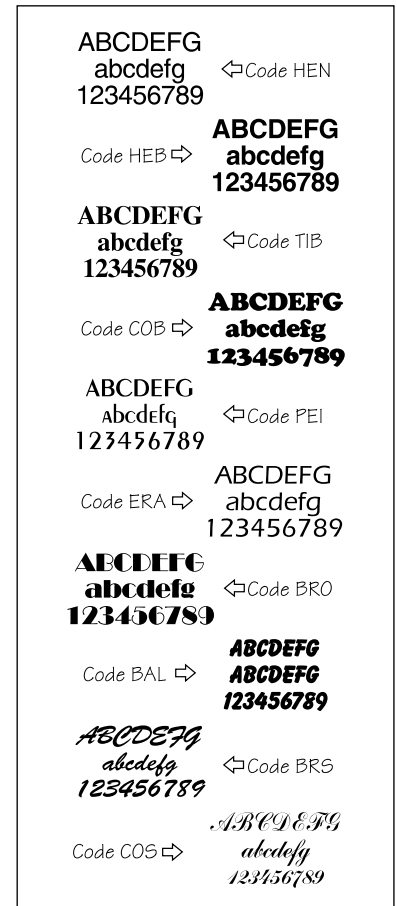
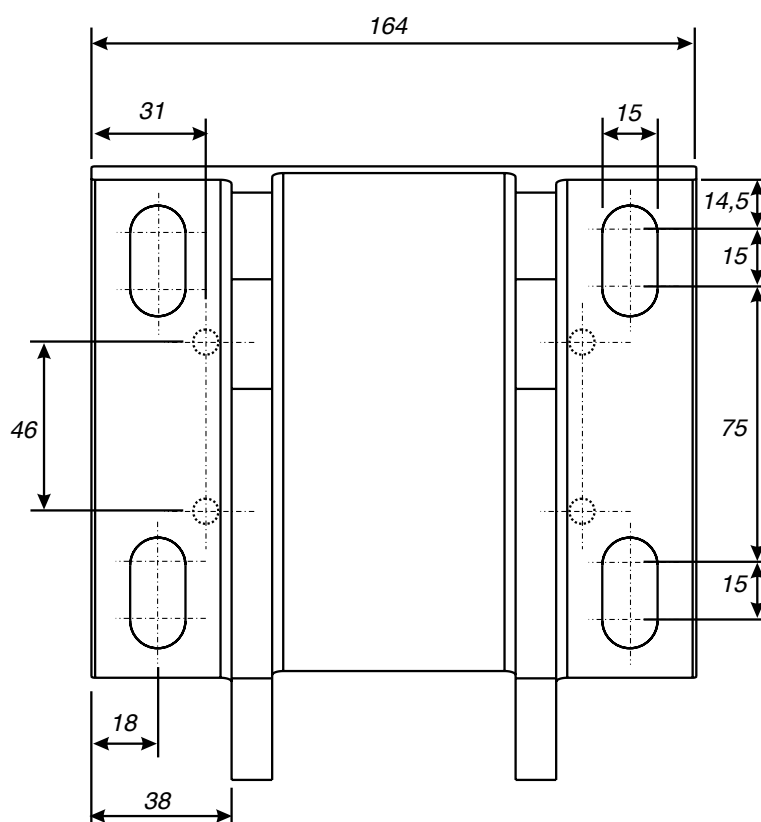
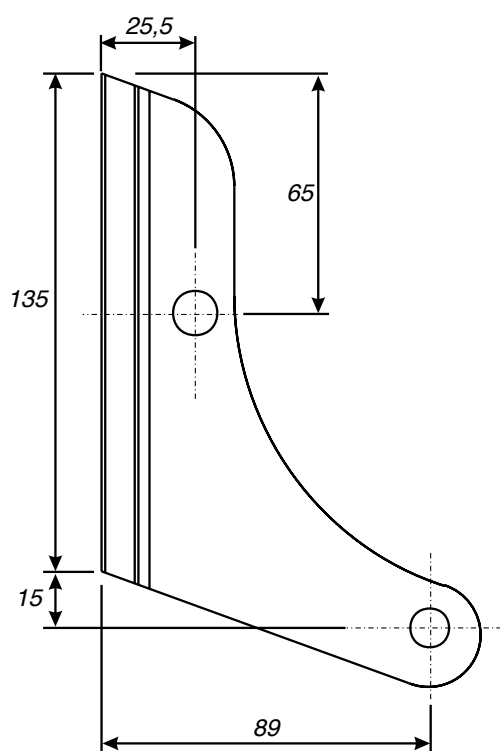
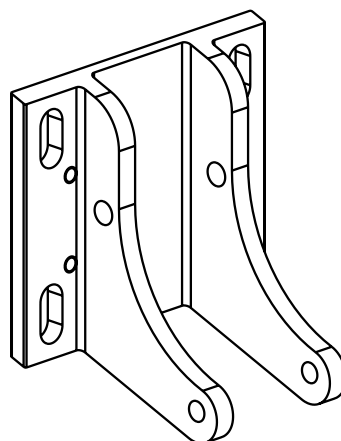
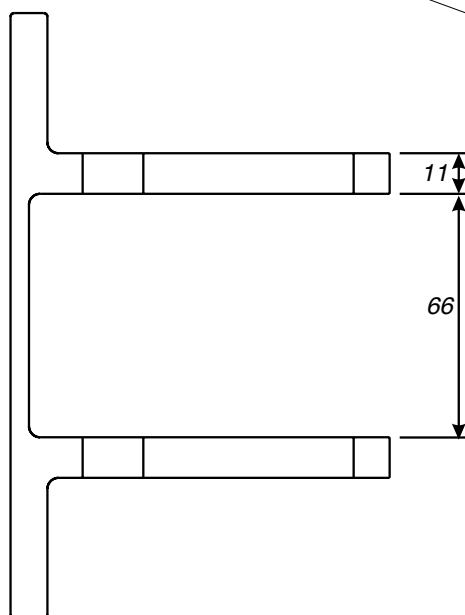
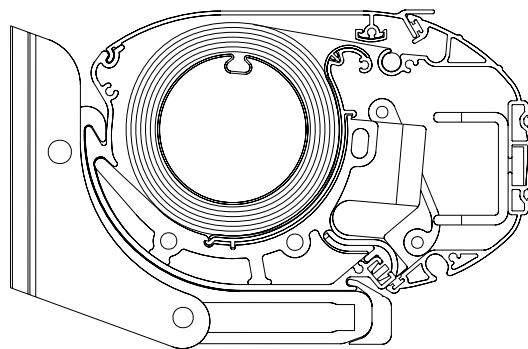
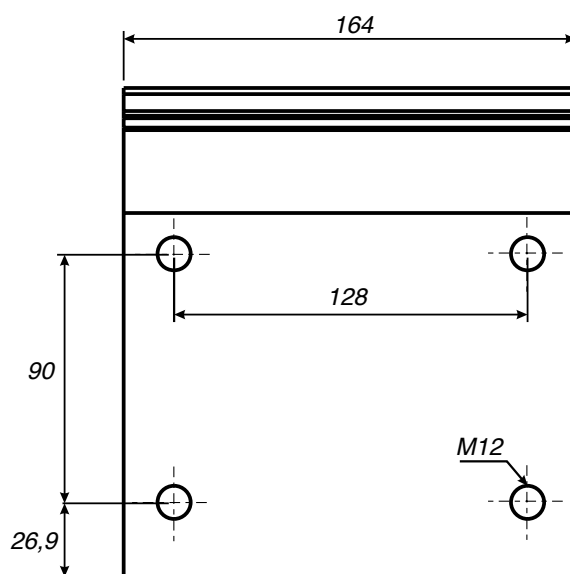
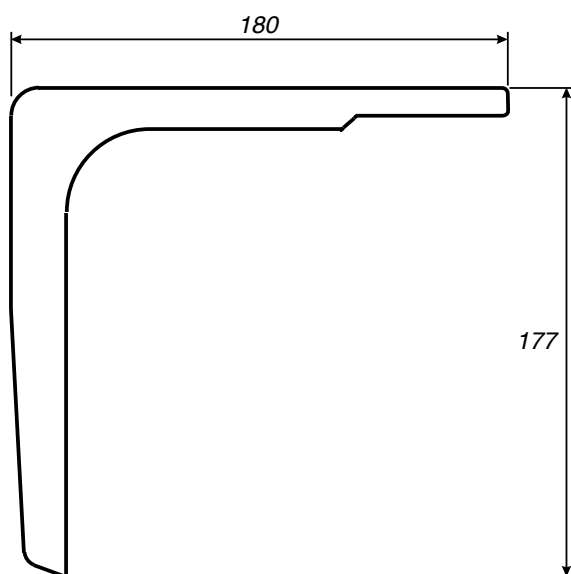
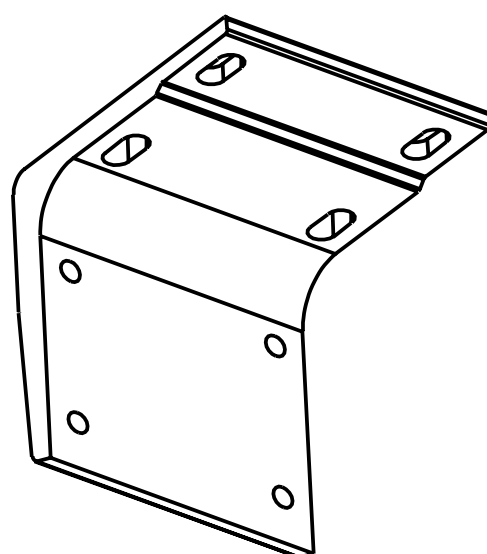
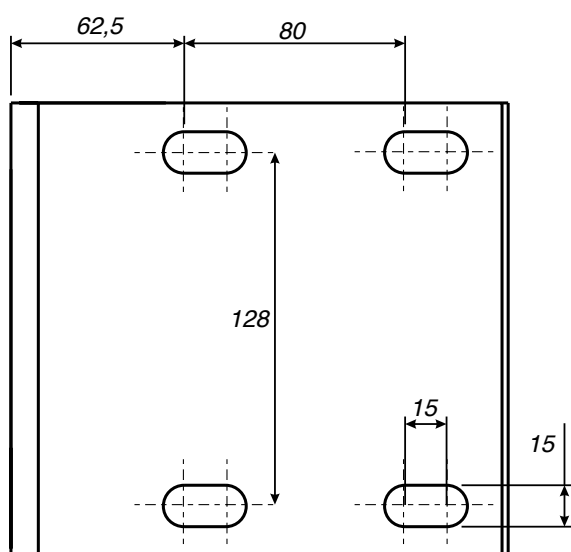
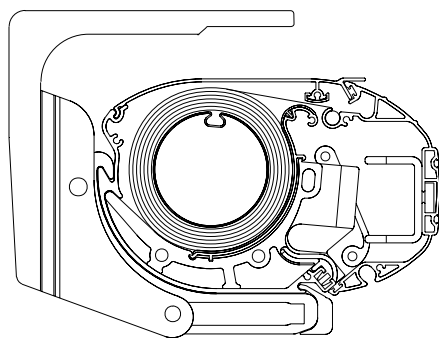


Fig. 13 : Lettering

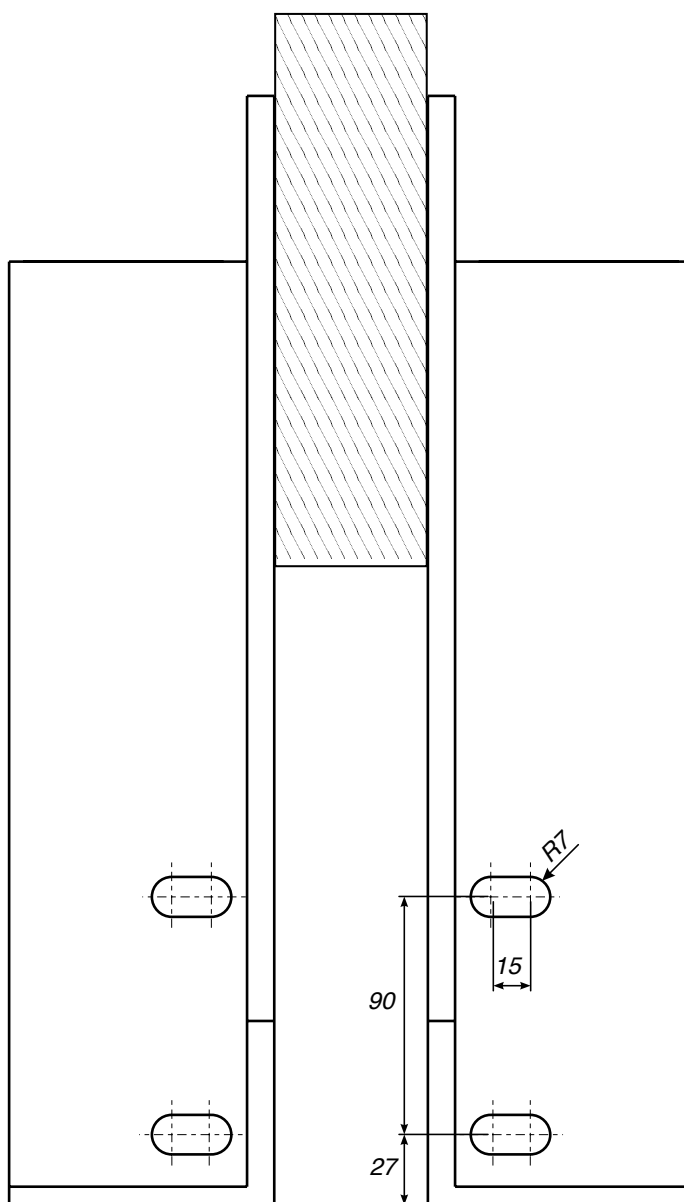
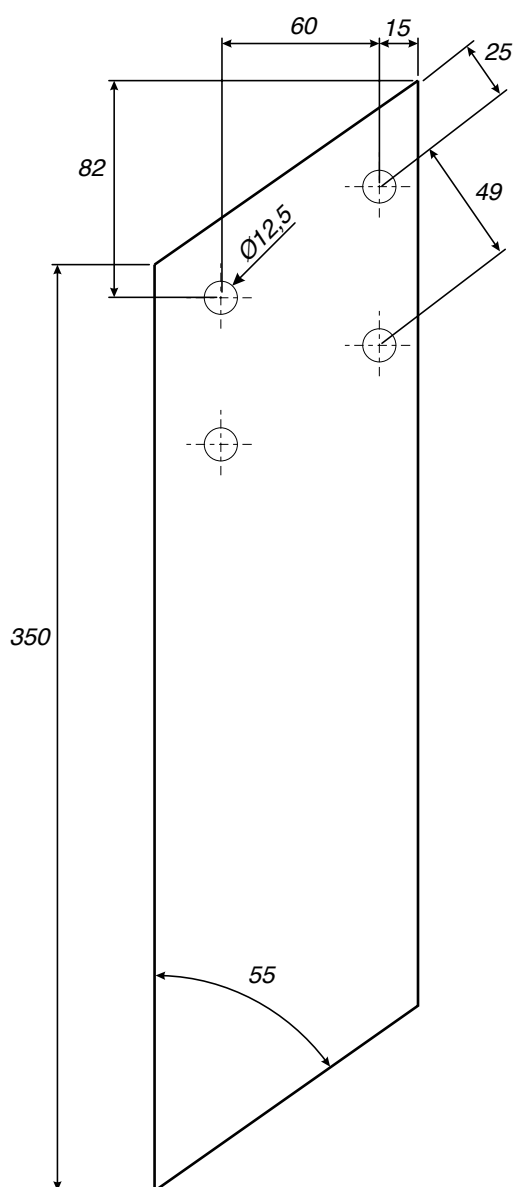
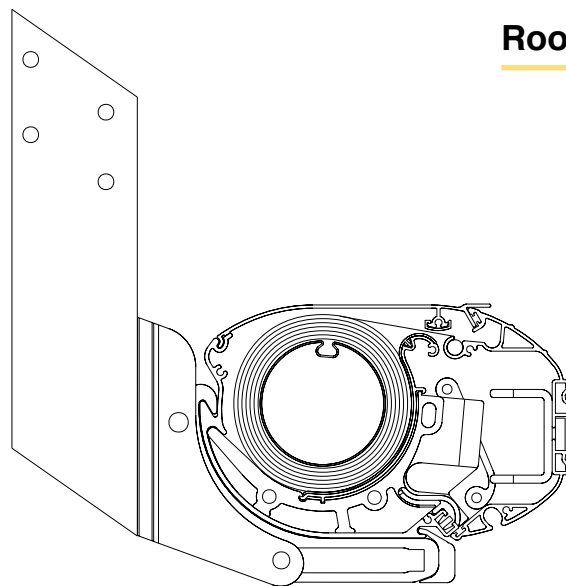
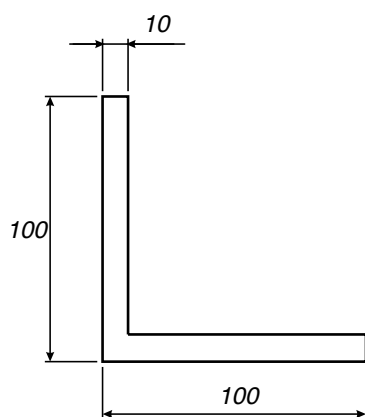
Bracket



Ceiling bracket



Roof truss



1. Number:

Number of identical awnings

2 + 3. Finished measures:

Width = Finished width of the box in mm

Extension : see fig. 10 page 12

4. Operation:

Remark : seen from the outside

Type :

1281 motor Sunea IO (standard)
1076 motor Orea RTS
2619 motor Orea WT
31 handle

Side :

1 left
2 right

5. Fabric colour:

Please indicate colour numbers according to the collection

6. Frame colour:

White RAL 9016
Brown RAL 8019
RAL-colour (indicate the number)

Remark : RAL-colour for an extra

7. Valance type:

see fig. 11 page 12

8. Valance height:

Standard : 250 mm

With lettering : 300 mm

Remark : higher valance for an extra

9. Supplements:

10. Text of lettering:

Please indicate the text in capitals and/or in small letters.

In case of insufficient space, please add a separate sheet, and mention this on the order form.

11. Size of lettering:

Please indicate width and height of text.

Attention : The colour of the fabric (background).

The readability of the letter type (capitals and small letters with BRS and COS).

12. Letter type:

see fig. 13 page 13

13. Letter colour:

Please indicate the desired colour.

14. Position of the lettering:

Please describe very clearly the position of the text on the fabric, the valance or the lateral fabric.

For example: The position regarding to the bottom side.

The position regarding to the left side.

Add, when necessary, a model to the order form (please indicate this on the order form)

Remark : It is for your own importance to describe very clearly the lettering. Failures caused to vague orders will not be taken at expense of Harol.

15. Number:

Number of identical lateral fabrics.

16. Mounting side:

L : at the left side

R : at the right side

L + R : at the left- and right side

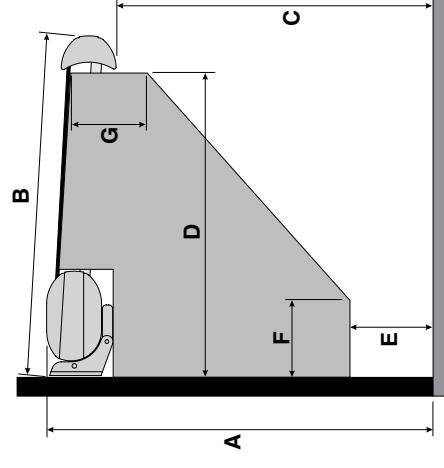
Remark : always seen from the outside

17. Form:

see fig. 12 page. 12

In case of another form : please add a drawing.

18. Sizes:



Order form Cassette awning CA430

DATE: REFERENCE HAROL:

CLIENT / INVOICE				DELIVERY ADDRESS			
Name:				Name:			
Address:				Address:			
Client NR:				Tel:			
Tel:				Fax:			
VAT:				Delivery time:			
Fax:							

POSITION	NUMBER	FINISHED MEASURES (MM)		OPERATION		FABRIC COLOUR	FRAME COLOUR	VALANCE TYPE			REFERENCE
		WIDTH	EXTENSION	TYPE	SIDE			TYPE NR	COLOUR	HEIGHT	
1											
2											
3											
	1	2	3	4		5	6	7	5	8	9

TEXT OF LETTERING	MEASURES		LETTER TYPE	LETTER COLOUR	POSITION OF THE LETTERING						DRAWING INCLUDED	
	WIDTH	HEIGHT			A	B	C	D	E	F		G
Text:												
	10	11	12	13	14							

SIDE FLAPS (PLEASE FILL IN ALL DATA) DRAWING INCLUDED: YES / NO	NUMBER	MOUNTING SIDE	FABRIC COLOUR	FORM	A	B	C	D	E	F	G

- Spaces not filled in = standard execution.
- The operating side is always seen from the outside.
- Please indicate all sizes in mm.
- We consider the mentioned sizes as being nett, i.e. no extra play is deducted.
- Each order is executed according to our terms and conditions of sale.

I have taken note of the technical product descriptions and take full responsibility for the indications and sizes mentioned.

The client,

PRICE:

REMARKS:

HAROL®

V1-04-03

