The small conservatory awnings from the weinor **WGM** family

weinor
THE AWNING
... more than sun protection

WGM 1030 *flat unit*

WGM 1000 *Solar bend unit*

Smart design for small areas
*The **WGM 1030** and **WGM 1000** were designed especially for conservatories with smaller dimensions. Despite their dainty looks there is concentrated weinor technology in them. Like their big "sisters" their particular strengths lie in their ability to adapt.*

→
Conservatory awnings
WGM 1030/1000

Technical Details

Max. sizes
WGM 1030 flat unit
- 1 section: axial dimension up to 450 cm, projection up to 500 cm
- Multi section: axial dimension up to 1800 cm, projection up to 500 cm
- Maximum fabric area 16 m^2 per section

WGM 1000 solar bend unit
- 1 section: axial dimension up to 400 cm, projection up to 500 cm
- Multi section: axial dimension up to 1200 cm, projection up to 500 cm

Technical equipment
- Guaranteed smooth-running combination of winding and guiding technology (European patent No. EP 0546297)
- Service friendly circular tensioning system (European patent No. EP 000000559959A3) with TEX cord, patented cord coiling mechanism built into the outer rail and pre-tensioned
- Removable inspection cover
- Patented carriage system for one-sided winds (angled up to 10°)
- Protective brushes keep heavy rain out of the casing
- Casing overhangs only 5.5 mm to the side
- Intelligent coupling system for multi-section units
- Large selection of support brackets
- Distance bars for wider units and ones with longer projection

Powder coating
- In 47 standard colours
- 6 standard contrasting colours for top and outer rail end caps
- Surface permanently resistant to scratching and weather

Pattern
- Large selection of fabrics from the current weinor collections

Drive
- Motor as standard

Options

Drive
- Remote control

Controls
- Sun and wind monitors
- Automatic rain sensor

Accessories
- **Heating system Tempura**
- **Light Bar Lux**

The technical product highlights of the **WGM 1030/1000**

WGM 1030

Little casing overhang
With its slim casing whose side caps only overhang by 5.5 mm, the **WGM 1030** is also suitable for fitting in difficult places, e.g. in niches.

The carriage system ensures very quiet opening and retracting

The carriage system
Precision rollers reduce the friction considerably. This means that opening and retracting are extremely easy.
(European patent No.:
EP 0545062)
(Tilt angle up to 10°)

Distance bar for larger sections

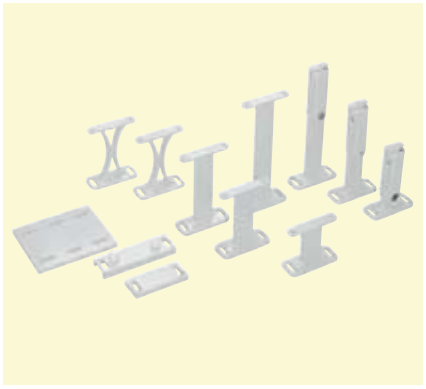
The distance bar
On units with larger dimensions, a distance bar is fitted so as to reduce the sag in the fabric.

Attractive cover caps

The cover caps
are of high quality cast aluminium and elegantly round off the side channels of the **WGM 1030/1000**. Their shape and colour harmonise with the awning casing cover caps.

Protective brushes in the awning casing

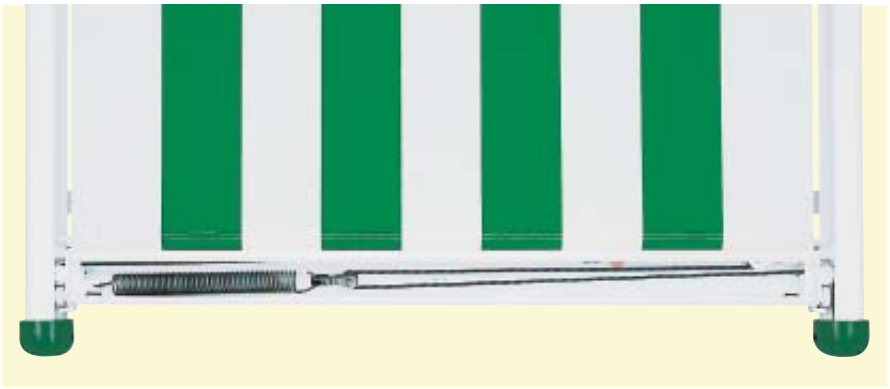
Protective brushes
In heavy rain, the protective brushes stop water getting into the cassette, especially when the **WGM 1030/1000** is not fitted at an angle but rather horizontally, e.g. with a minimum tilt angle of 5°.



There is a wide selection of brackets available

The support brackets
A wide selection of different support brackets is available for the **WGM 1030/1000**. It is even possible to fit them in awkward locations.

The technical product highlights of the **WGM 1030/1000**



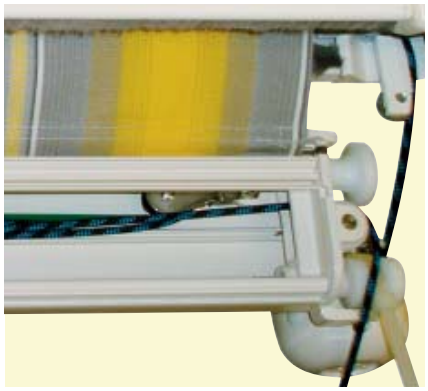
Open outer rail with patented tensioning system

The tensioning system
Its simple but at the same time robust design is simply captivating. The Tex cord, developed for ocean sailing, does not stretch and is both tear and tension proof.
The combination of winding and guiding technology ensures that the cord is wound quietly in a controlled manner. The tensioning mechanism is easily accessible and service friendly in the outer rail.
The tension in the fabric can be adjusted simply with an Allen key. The refined technology ensures that the fabric stays permanently taut.
(Patent applied for P 4207821.0)

Patented cord drum and slider

When the **WGM 1030** flat units are delivered, the cord is already threaded into the outer rail and in the end cap.

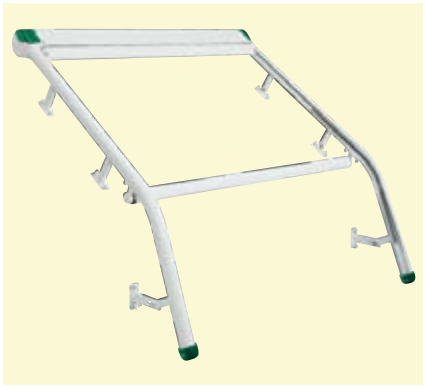
Fabric tension can be adjusted easily



***WGM 1030** with threaded cord*

The technical product highlights of the **WGM 1000** solar bend unit

*Single section **WGM 1000** solar bend unit*



*Retracted single section **WGM 1000** solar curved unit*

Support bracket

Solar bend

The **WGM 1000** is designed especially for conservatories with a hip to the front. It combines well with the Aruba window awnings to provide additional vertical shade.

The carriage system

The patented carriage system plays a particularly important role on the curved unit because the cord is led precisely through the bend.
(Patent No. EP 054062)

Distance bars

In the area of the bend (max 35°), the fabric is fed through a sturdy distance bar (ø 60 mm). The standard internal radius of the Solar bend is 300 mm.

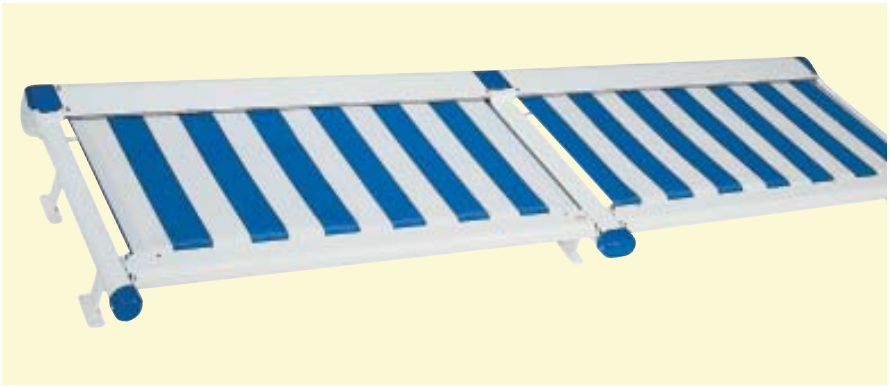
Distance bars in the area of the bend

Side channels

On solar bend units, the side channels may be in several parts. If so, the support brackets should be placed at the joints.

Support bracket at the joint

The technical product highlights of the **WGM 1030/1000** multi-section units



***WGM 1030** 0-2-1, coupled, 2 sections, double side channel opened …*

… and retracted

Multi-section units for flat and solar bend units
Both with solar bend **(WGM 1000)** and without **(WGM 1030)** and coupled as multi-section units with up to four sections, the conservatory awning is the ideal shade for individually sized conservatories. The small casing overhang of just 5.5 mm even makes it suitable for fitting in niches.

Fabric rolled out the same distance
The precision rollers in the carriage and the patented coupling system ensure that the fabric in all sections opens the same distance. The fabric sections open and retract together.

The double side channel
Above a certain width, two individual sections are linked using a double side channel and driven by one motor.

Double side channel for guiding the fabric

Opened at the joint: the casing cover with cord drum and pulley block

The coupling system
The coupling system makes the fabric sections of multi-section units infinitely adjustable. Equal lengths of fabric look good. They can be adjusted and re-adjusted at any time.

Fitting the second casing with a fabric roller and the infinite adjustment of the fabric is particularly simple.

The cassette covers can be opened easily at the joint. Coupling is carried out with a square bolt. The support provided to the side channels by the support brackets is adequate as the casing is free-standing. The sturdy double side channel at the joint is also held up by just one line of support brackets.

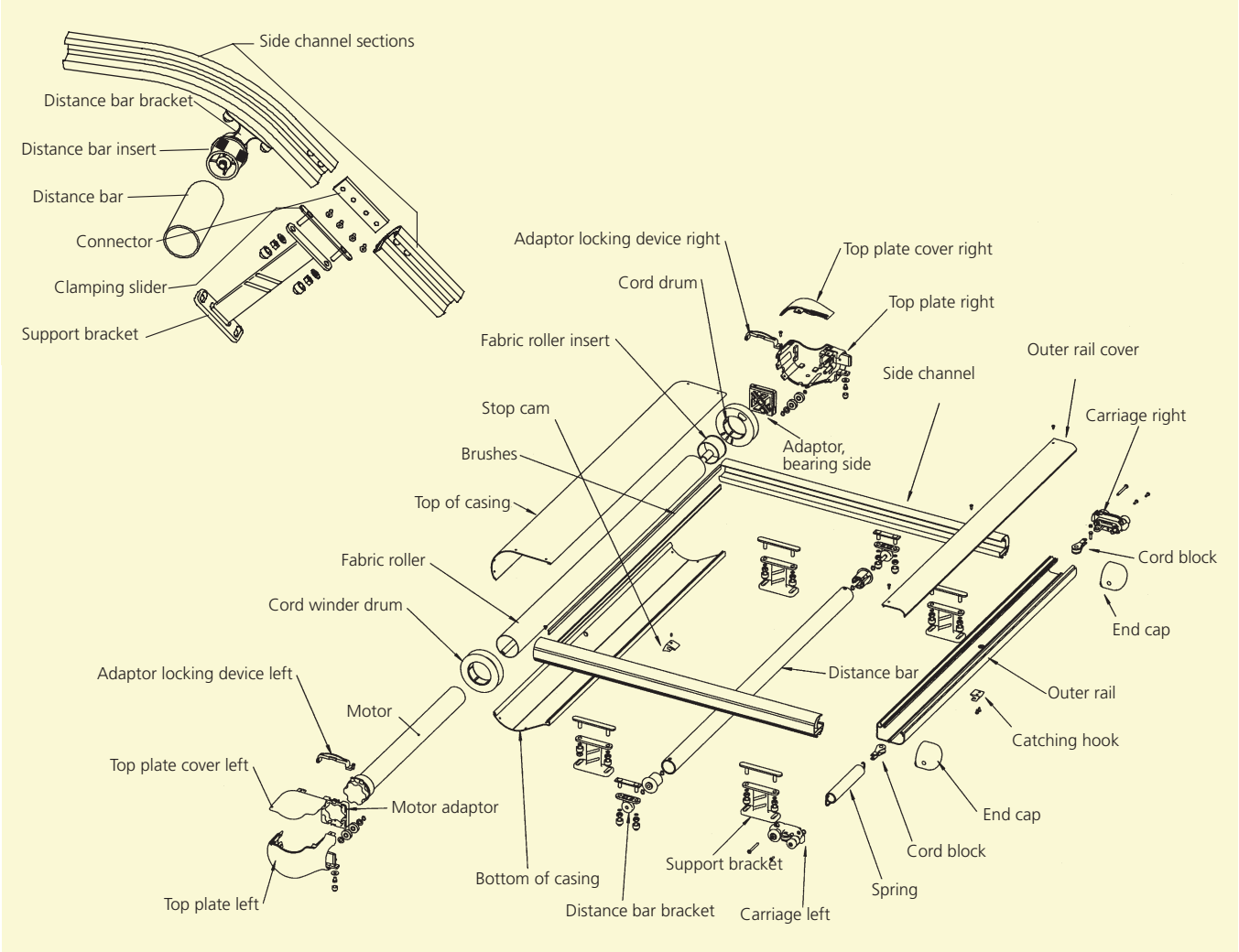
Product benefits at a glance

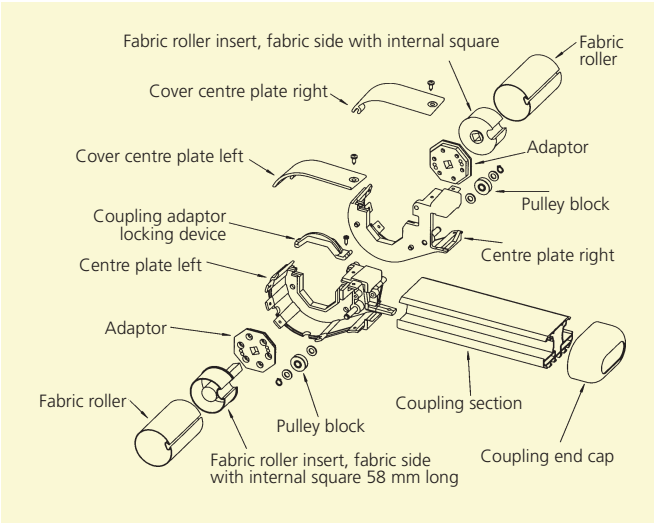
Designation	Material	Surface treatment	Qualities	Your advantages
Casing section Outer rail Guide section Support bar	Aluminium, extruded	Chrome-free pre-treated, powder coated	Surface permanently resistant to scratching and weather	You choose the powder coating colour for your awning to suit your conservatory. Pre-treating the profiles prevents corrosion altogether, even on damaged surfaces.
Cord in tensioning system	Tex cord as used in ocean racing			Robust, tear and tension proof, runs quietly
Patented tensioning system	With angle drive for tensioning			Easily accessible and can be adjusted at any time
Patented coiling and guiding system	Cord drum of high grade plastic Sliders: plastic, stainless steel			Controlled and quiet winding
Patented carriage system	Cast aluminium, precision rollers	Cast parts powder coated		Easy safe running
Support brackets Fixing brackets	Aluminium, extruded or cast aluminium	Machine-edged, chrome-free pre-treated, powder coated	Surface permanently protected	Rust protection, down to the last detail
Casing and outer rail end caps	Cast aluminium	In 6 standard coloured coatings	Surface permanently weather-resistant	Choose the colours for the end caps to match the fabric, the conservatory or tone-in-tone.
Screws	Stainless steel		Non-corrosive	No rust, no appreciable wear and tear
Awning material	Acrylic		Spin-jet dyed, impregnated	The weinor fabric collection offers a wide variety of sophisticated patterns.
Drive motor			Precisely manufactured robust design	The awning is opened and retracted by an electric tubular motor housed in the fabric roller.

Overview of product options

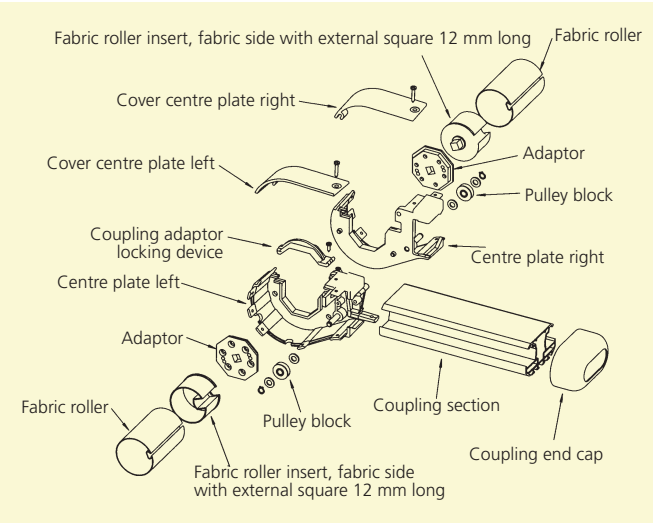
Designation	Material	Surface treatment	Qualities	Your advantages
Awning fabric from external suppliers	Acrylic	Spin-jet dyed, impregnated	Warp printed, watertight	Even greater selection of unicolour and striped fabrics.
	Soltis 92	Specially coated polyester fibre	Microvented, light permeable	Light and wind permeable sun protection
Remote-controlled drive				On request, an integrated tubular motor with **WeiTronic receiver** can be fitted. The **WeiTronic Remoto handheld remote control** makes for easy operation of the awning. See the Accessories section for details.

Exploded drawing of the **WGM 1030/1000**



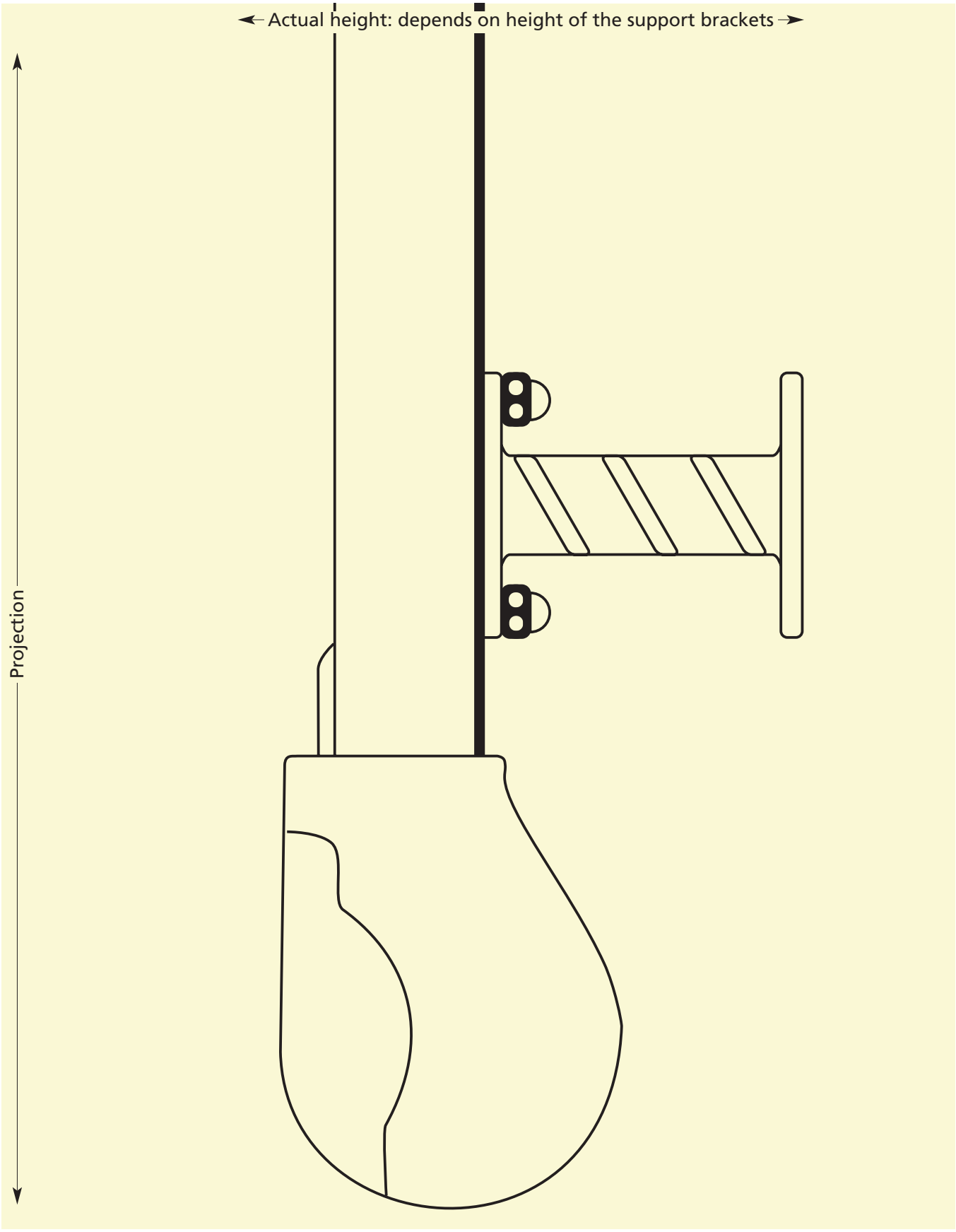


Joint with 1 motor: The sections to the left and right, next to the joint are driven by the same motor.

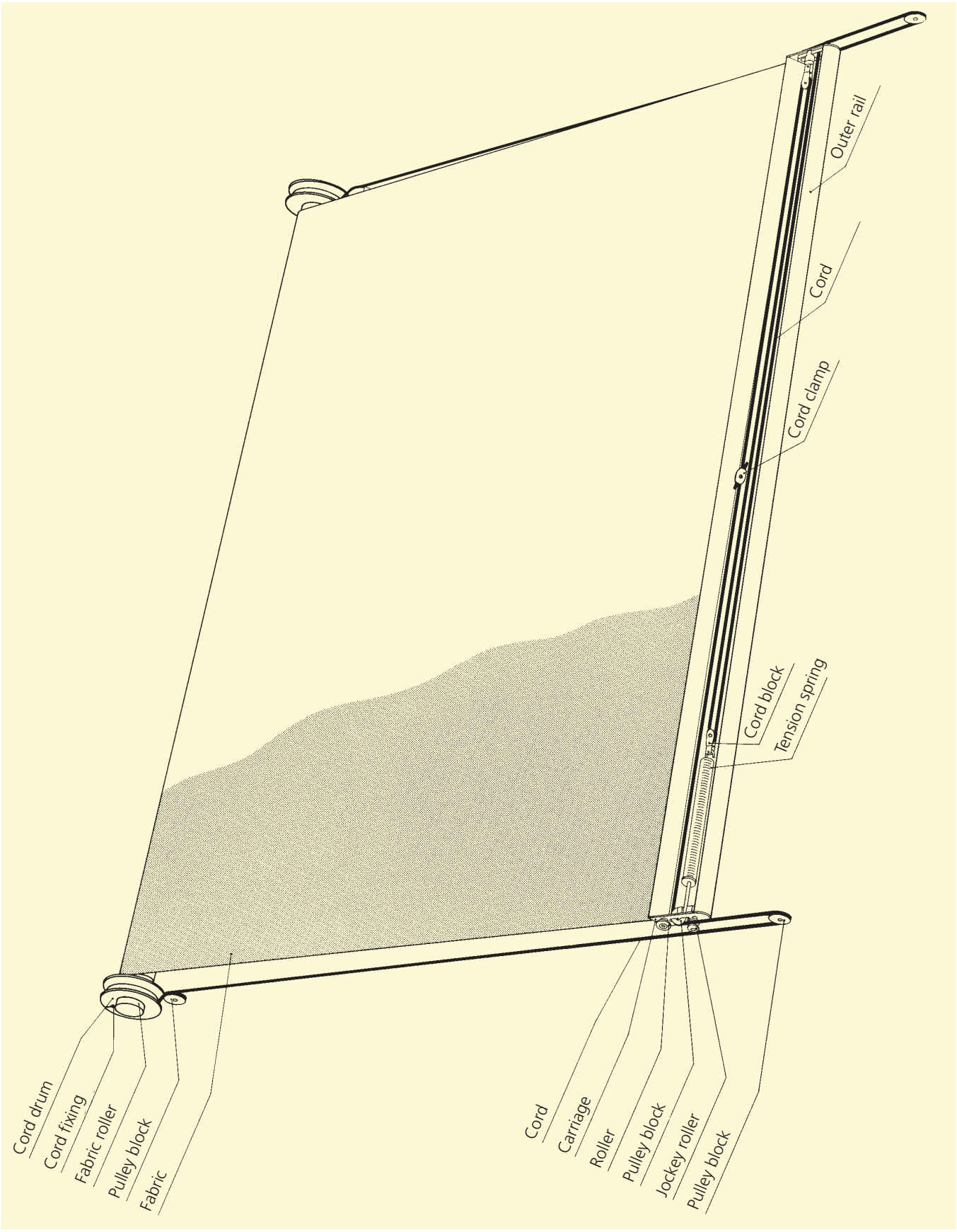


Joint with 2 motors: Each section next to the joint is driven by a separate motor.

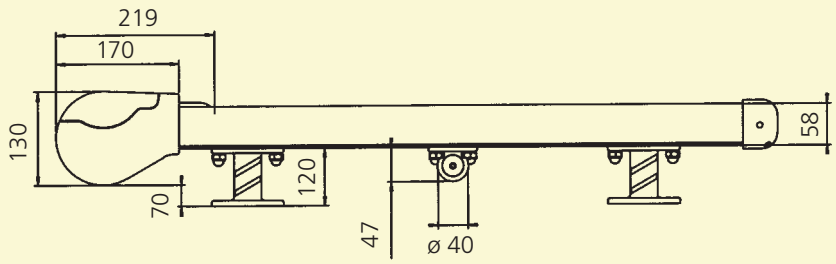
Cross-sectional drawing, **WGM 1030/1000** – not to scale



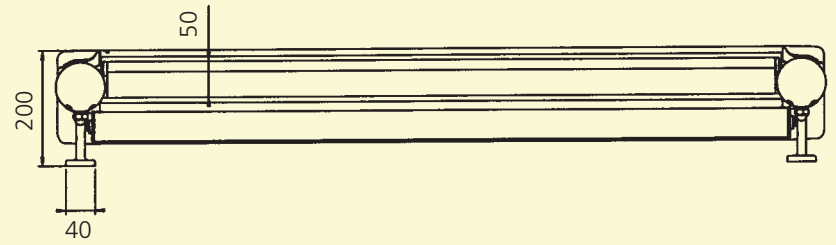
Functional drawing, **WGM 1030** single section flat unit



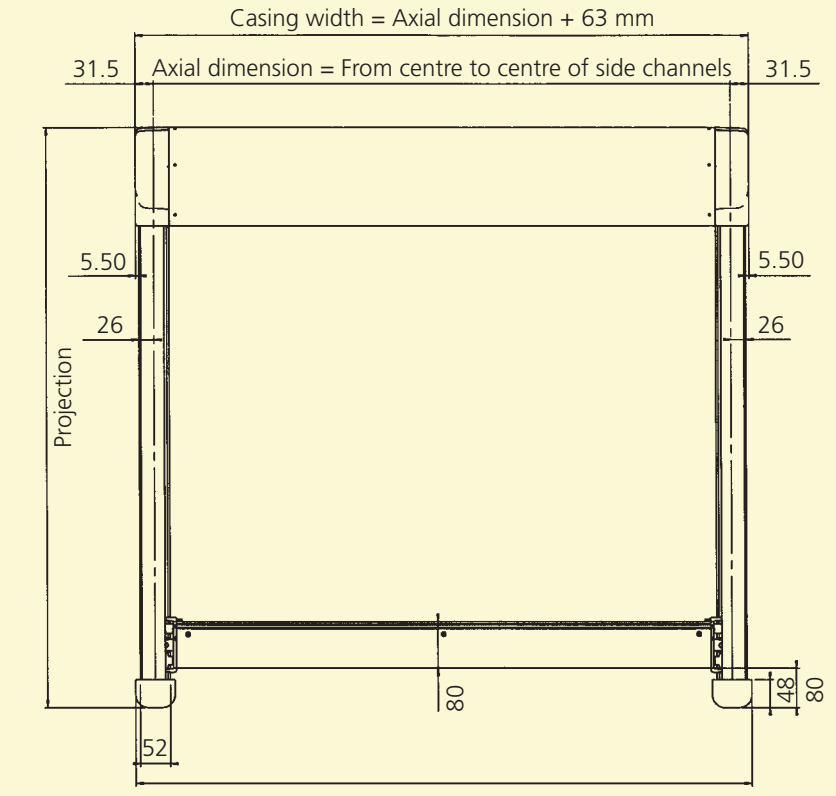
Overall views



Viewed from side
WGM 1030 0-1-1
Single section flat unit with
1 motor, height of support bracket
here 120 mm
When establishing the fixing
height, check for any opening
windows, gutters, etc.

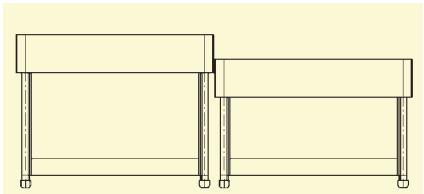


Viewed from front
WGM 1030 0-1-1
Single section flat unit with
1 motor, height of support bracket
here 120 mm

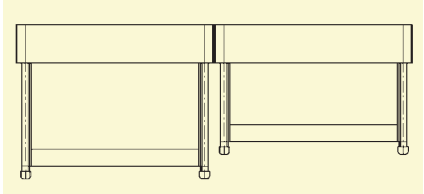


Total width = Casing width + 8 mm
= Axial dimension + 71 mm

Viewed from above
WGM 1030 0-1-1
Single section flat unit with
1 motor

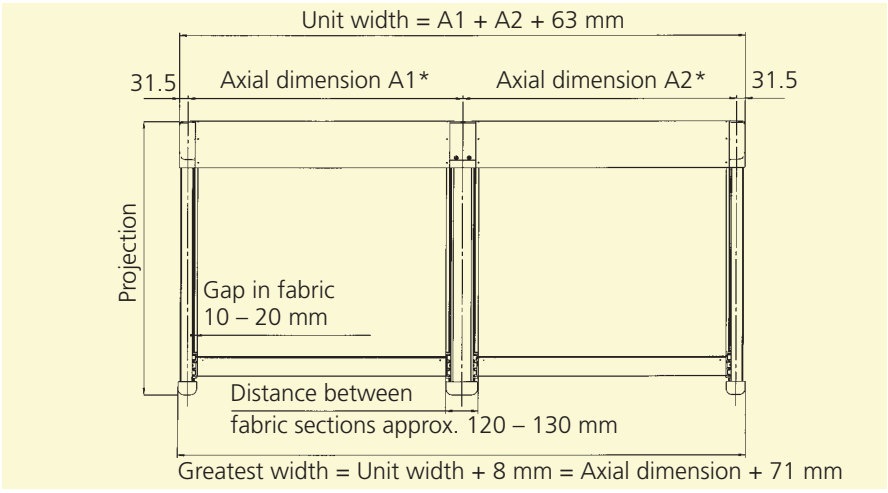


Offset units with differing pro-
jection lengths are technically
possible. In this case, one motor
is required for each section.



Series-connected units with
differing projections are also
technically feasible.

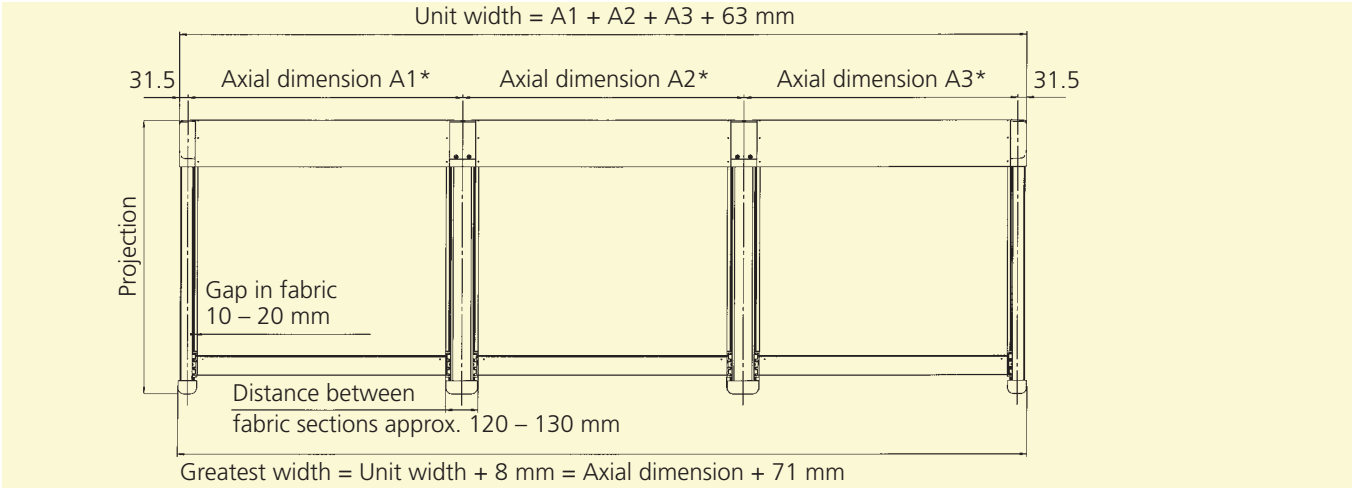
Multi-section units viewed from above



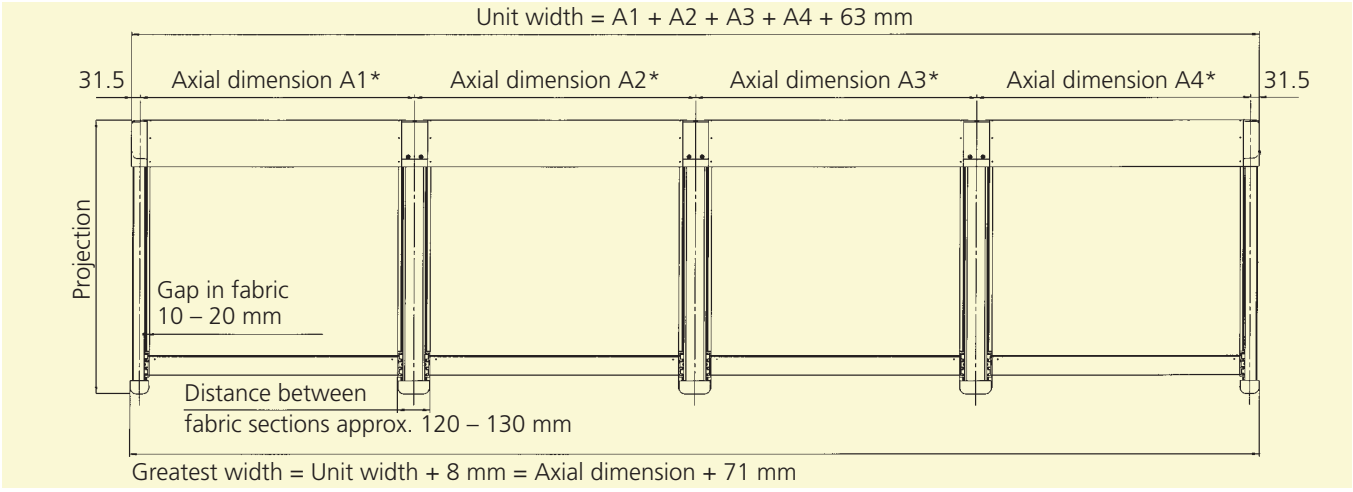
WGM 1000 0-2-1
Two section flat unit
coupled with 1 motor (above)

* Axial dimension of **WGM 1030** = centre to centre of side channels

WGM 1030 0-3-2
Three section flat unit coupled with 2 motors (centre)



WGM 1030 0-4-2
Four section flat unit coupled with 2 motors (below)



Type designations/establishing dimensions

Example 1
WGM 1030
0-3-2 flat unit

Type key:
0 = No. of bends
= flat unit
3 = No. of sections
2 = No. of motors

Establishing dimensions
Projection =
rear edge of casing to front edge of side channel cap

Axial dimension =
centre to centre of side channel

Section width =
centre to centre of side channel

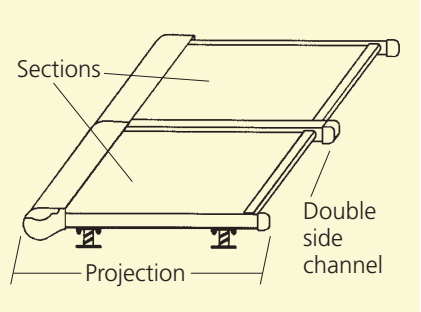
Example 2
WGM 1000
1-3-2 solar bend unit

Type key:
1 = No. of bends
= Solar bend unit
3 = No. of sections
2 = No. of motors

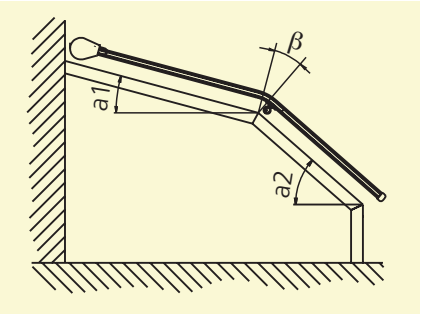
Standard radius of bend: 30 cm internal. On units with 1 bend* the maximum angle of the bend is 35°

The angle of bend is different each time, depending on the sub-structure,
max. fabric area 16 m^2

Bend angle = β
$\beta = \alpha_2 - \alpha_1$



***WGM 1030** flat unit 0-2-1*
0 bends, 2 sections, 1 motor



***WGM 1000** solar bend unit 1-2-2*
1 bend, 2 sections, 2 motors

Overview of types, **WGM 1030/WGM 1000** with acrylic fabric

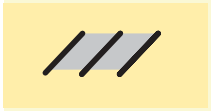
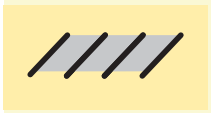
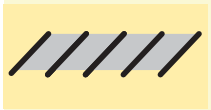
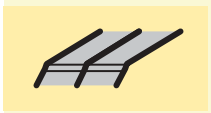
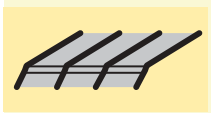
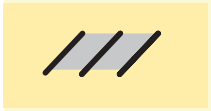
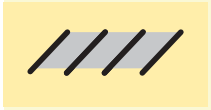
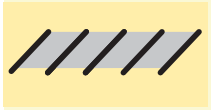
Fig.	Type **WGM 1030**	No. of sections	No. of motors	Max. projection in cm	Axial dimension from – to in cm	Axial dimension single section min. – max. in cm
	0-1-1	1	1	– 200	78 – 450	
				201 – 300	85 – 450	
				301 – 400	140 – 450	
				401 – 500	150 – 400	
	0-2-1	2	1	– 200	156 – 900	78 – 450
				201 – 300	170 – 900	85 – 450
	or			301 – 400	280 – 900	140 – 450
	0-2-2	2	2	401 – 500	300 – 800	150 – 400
	0-3-2	3	2	– 200	234 – 1350	78 – 450
				201 – 300	255 – 1350	85 – 450
				301 – 400	420 – 1350	140 – 450
				401 – 500	450 – 1200	150 – 400
	0-4-2	4	2	– 200	312 – 1800	78 – 450
				201 – 300	340 – 1800	85 – 450
				301 – 400	560 – 1800	140 – 450
				401 – 500	600 – 1600	150 – 400

Fig.	Type **WGM 1000**	No. of sections	No. of motors	Max. projection in cm	Axial dimension from – to in cm	Axial dimension single section min. – max. in cm
	1-1-1	1	1	– 200	88 – 400	
				201 – 300	95 – 400	
				301 – 400	150 – 400	
				401 – 500	160 – 400	
	1-2-1	2	1	– 200	166 – 800	88 – 400
				201 – 300	190 – 800	95 – 400
	or			301 – 400	300 – 800	150 – 400
	1-2-2	2	2	401 – 500	320 – 800	160 – 400
	1-3-2	3	2	– 200	264 – 1200	88 – 400
				201 – 300	285 – 1200	95 – 400
				301 – 400	450 – 1200	150 – 400
				401 – 500	480 – 1200	160 – 400

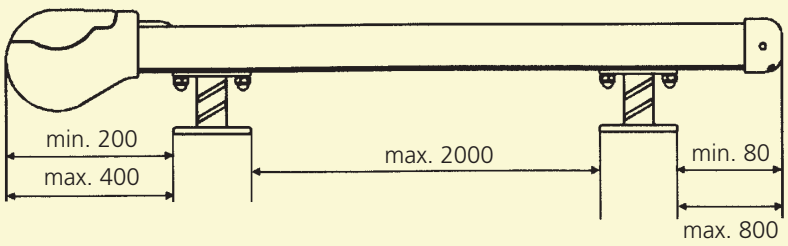
Overview of types, **WGM 1030** with Soltis fabric

Fig.	Type WGM 1030	No. of sections	No. of motors	Max. projection in cm	Axial dimension from – to in cm	Axial dimension single section min. – max. in cm
	0-1-1	1	1	– 100	78 – 450	
				101 – 150	85 – 450	
				151 – 250	150 – 450	
				251 – 350	170 – 450	
	0-2-1	2	1	– 100	156 – 900	78 – 450
				101 – 150	170 – 900	85 – 450
	or			151 – 250	300 – 900	150 – 450
	0-2-2	2	2	251 – 350	340 – 900	170 – 450
	0-3-2	3	2	– 100	234 – 1350	78 – 450
				101 – 150	255 – 1350	85 – 450
				151 – 250	450 – 1350	150 – 450
				251 – 350	510 – 1350	170 – 450
	0-4-2	4	2	– 100	312 – 1800	78 – 450
				101 – 150	340 – 1800	85 – 450
				151 – 250	600 – 1800	150 – 450
				251 – 350	680 – 1800	170 – 450

Attachment

Standard method of attachment of **WGM 1030/1000**, casing always free-standing.

Important dimensions for positions of brackets



No. brackets WGM 1030/1000

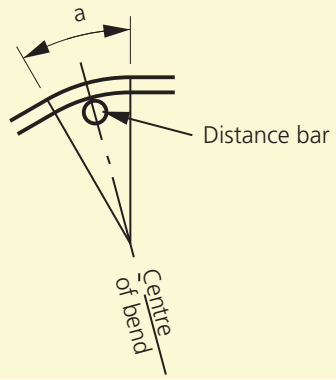
Type	Projection in cm up to 100	101 – 150	151 – 200	201 – 250	251 – 300	301 – 350	351 – 400	401 – 450	451 – 500
1030-0-1-1	4	4	4	4	6	6	6	6	8
1030-0-2-1	6	6	6	6	9	9	9	9	12
1030-0-2-2	6	6	6	6	9	9	9	9	12
1030-0-3-2	8	8	8	8	12	12	12	12	16
1030-0-4-2	10	10	10	10	15	15	15	15	20
1000-1-1-1	4	4	6	6	8	8	8	8	10
1000-1-2-1	6	6	9	9	12	12	12	12	15
1000-1-2-2	6	6	9	9	12	12	12	12	15
1000-1-3-2	8	8	12	12	16	16	16	16	20

Use of distance bars

For the flat area (ø 40 mm)

Axial dimension in cm	Support brackets in cm	Projection in cm				
		up to 200	201 – 250	251 – 300	301 – 400	401 – 500
up to 450	from 12 cm	–	–	–	–	1*
up to 300	8 up to 12 cm	–	–	–	1**	1*
301 – 400	8 up to 12 cm	–	–	1**	1**	2***
401 – 450	8 up to 12 cm	–	1**	1**	1**	2***

* included in basic price as standard, see price list
** not included in basic price as standard, see price list for extra cost
*** 1 distance bar included in basic price as standard, 2 distance bars are technically necessary (for support bracket height under 12 cm)



The use of distance bars depends on the height of the support brackets.

In the area of the bend a distance bar of about 60 mm diameter is used.

Where there are strong winds and a weak substructure, or similar, we recommend using more support brackets and distance bars.

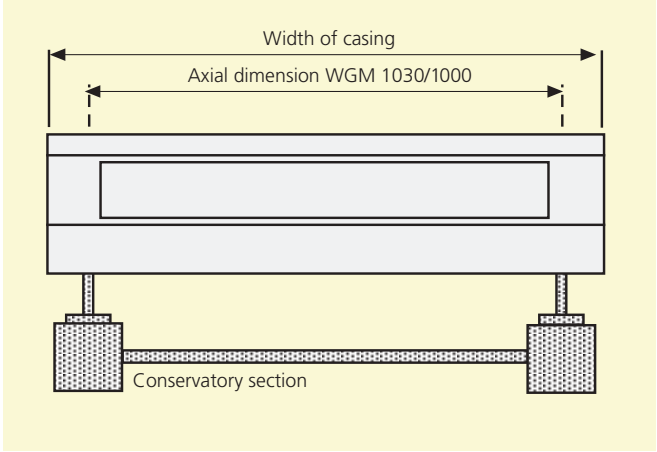
Please also note the details in the current weinor price list.
A bracket must be fitted at the joints between two side channels (solar bend units).

Please note that despite their perfection and the large quantity of materials used, the **WGM 1030/1000** are only sunshades.

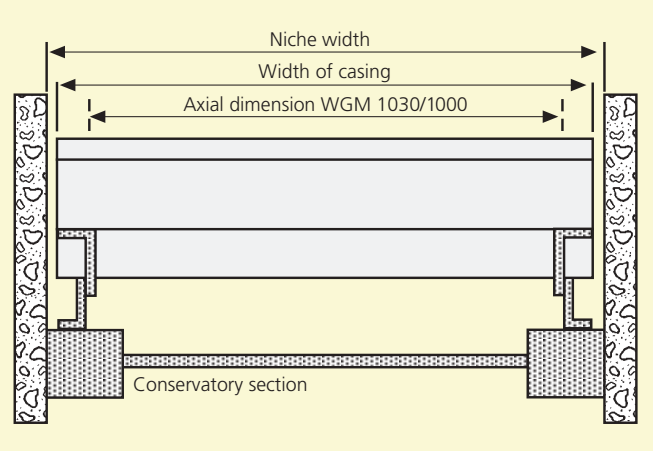
Information about supply
Attention:

- Units with SOLTIS fabrics can only be supplied in certain sizes (see table and price list)
- Soltis is not available for solar bend units
- Units which are to open from the bottom upwards are only available on request
- Motor drive without switch, plug, Hirschmann coupling as standard
- Fixings for the substructure are not supplied as standard

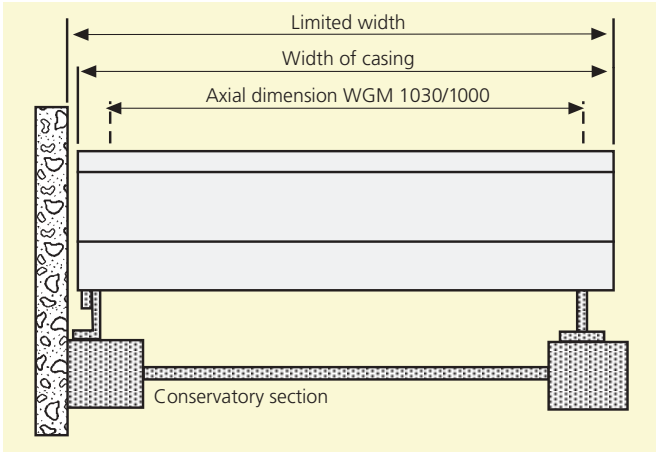
Mounting versions



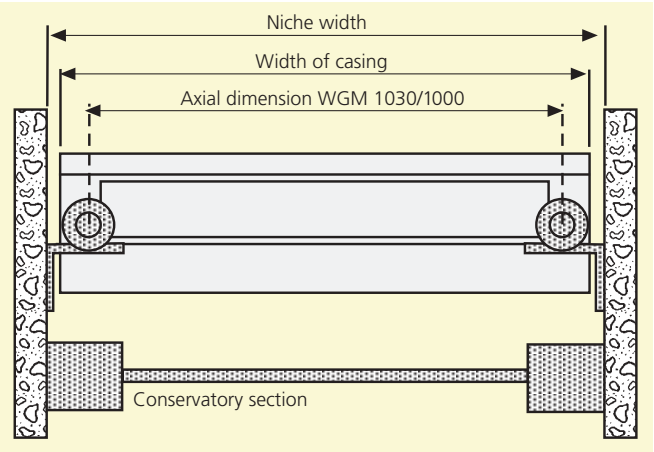
Unlimited sideways width of casing
E.g. mounting on a conservatory with standard support bracket.



Width of casing limited on both sides
E.g. mounting to the brickwork with an angle bracket. In this case, the **WGM 1030's** axial dimension may differ from the axial dimension of the substructure.
E.g. mounting on a conservatory with double angle bracket or niche support bracket.



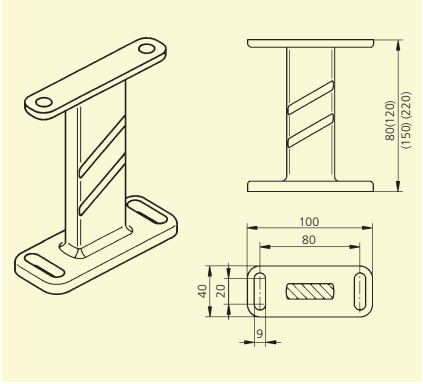
Width of casing limited on one side
E.g. limited side with double angle bracket or niche support bracket, free side with standard support bracket.



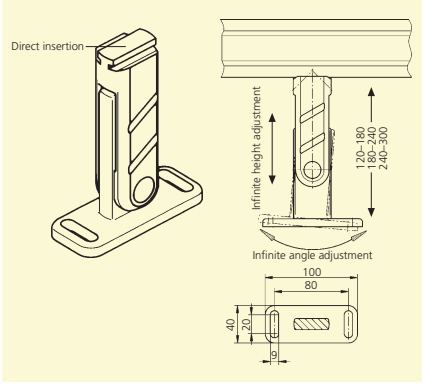
Width of casing limited on both sides
E.g. mounting on brickwork with wall angle bracket.

ⓘ Limited width (e.g. niche) minus space (min. 10 mm) = casing width. Casing width minus 63 mm = **WGM** axial dimension
Single-section unit: minimum niche width = axial dimension + 91 mm.
Multi-section units: if the casings of the unit sections are to be coupled in the niche/embrasure, approx. 6 cm space must be allowed for connecting (coupling) the last section of the unit.
If the unit sections can be coupled outside the niche/embrasure, the space requirement is the same as for a single-section unit.
The **WGM 1030/1000** can expand by up to 1 mm (approx.) in the heat.

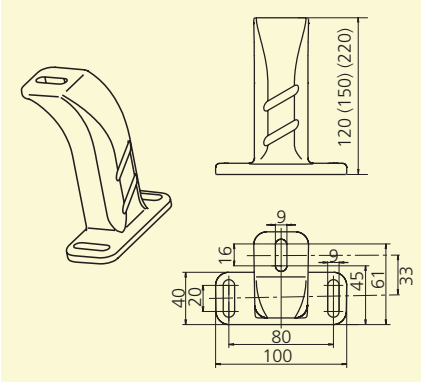
Support brackets



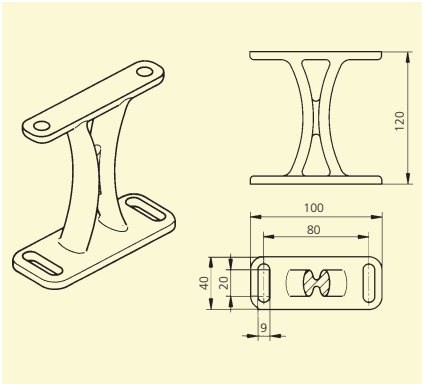
Standard support bracket, Modern
Height: 80 mm, 120 mm, 150 mm, 220 mm
Distance bars may be necessary, see table,
not for solar bend units



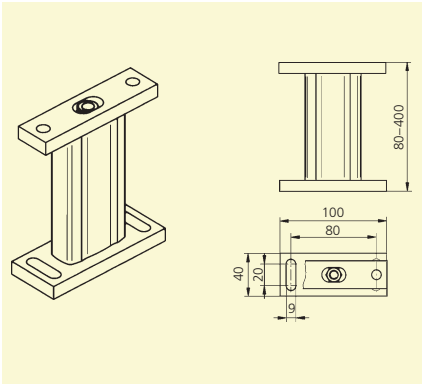
Universal support bracket,
adjustable height and angle, with direct insertion
Height: 120 –180 mm,
180 – 240 mm, 240 – 300 mm



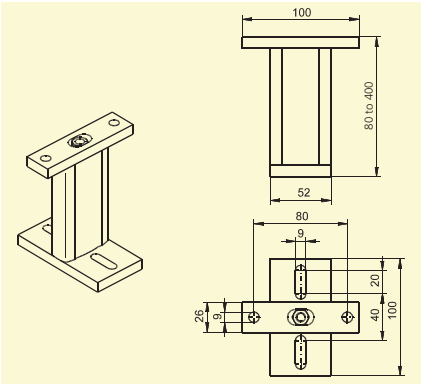
Niche support bracket
Height 120 mm, 150 mm, 220 mm



Standard support bracket, Gothic
Height: 120 mm



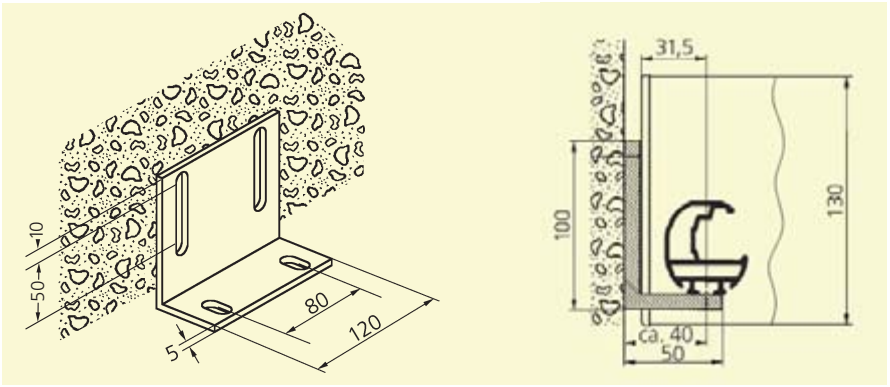
Special support bracket
Height 59 – 400 mm



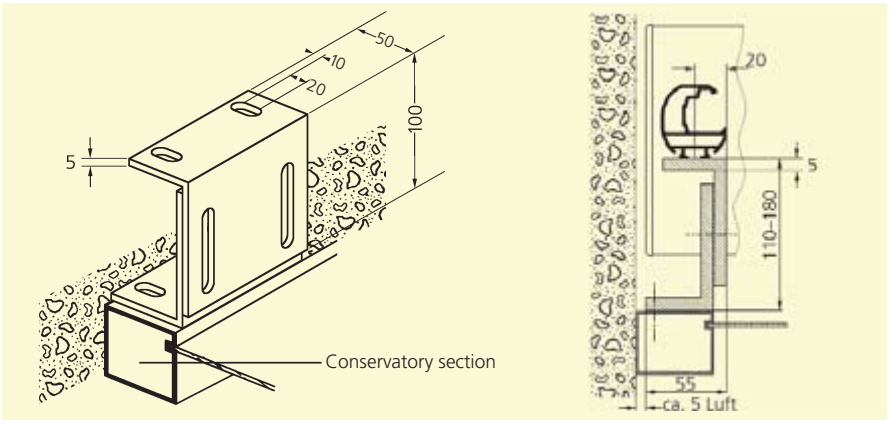
X-shaped support bracket
Height 80 – 400 mm

Fixing bracket for wind and sun sensor

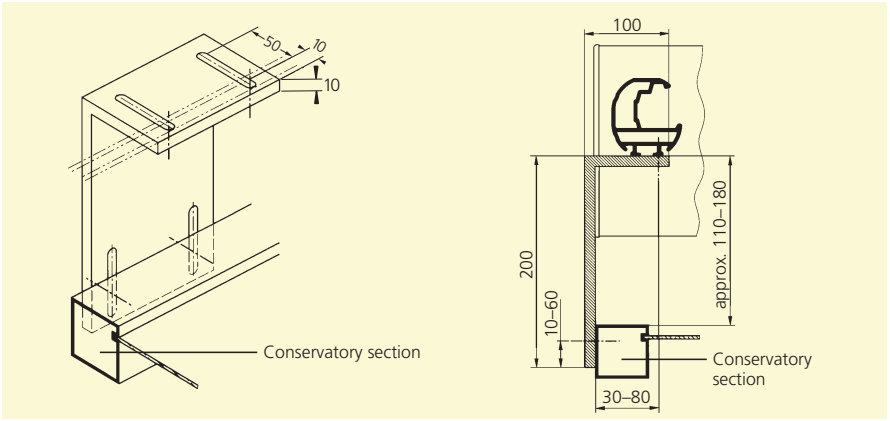
Angle brackets



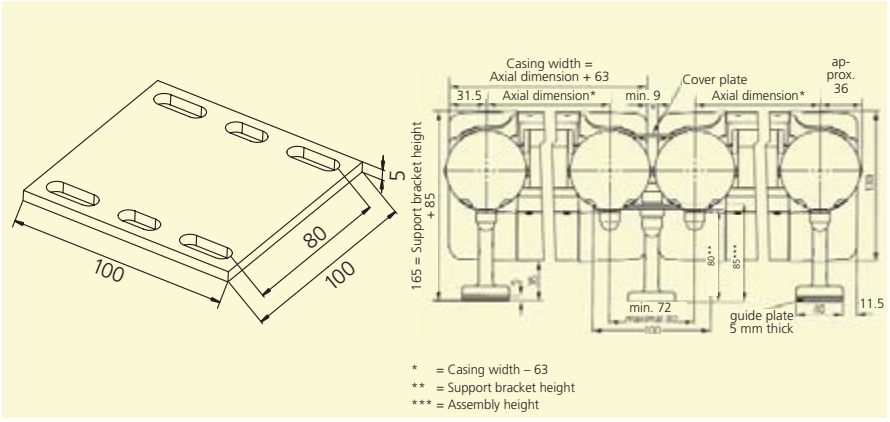
Bracket
for attachment to the side of the wall



Double angle bracket
height adjustable, for niche mounting



Long angle bracket
for fitting to the side of the conservatory



Fixing plate
for multi-section units with separate side channels, height: 5 mm