Impact®

Installation manual

Rev. 7 - 01.2016

Corradi
OUTDOOR LIVING SPACE

INSTALLATION MANUAL

Dear Installer
This manual contains advice for a rapid and precise installation of the various components.
Although we are sure that you know how to use our products we still recommend that you read our indications carefully.
We always welcome any suggestions or indications on possible improvements to the installation techniques or the layout of the manual.
We would also remind you that during installation you should always use materials that are in full respect of the environment.
It is also good practice to release, in addition to the declaration of conformity as required by law, a final declaration of correct installation according to the specifications in the manual.

IMPACT is a CORRADI product.
All technical interventions necessary for the installation must be carried out by authorised and specialised technicians.

All unauthorised interventions (tampering, technical modification etc.) during the warranty period will invalidate said warranty.

CORRADI reserves the right to make technical modifications to the components or products, except for the main features, at any time and without prior notice.

INDEX

SYMBOLS

SYMBOLS

The symbols indicated are used to draw the attention of the installer to arguments of particular importance for the safety of persons, the product or to indicate particular operating conditions.


Attention: general operating note


Attention: greater attention to what you are reading


Attention: general hazard; possible risk for persons, property components


Attention: electrical hazard


Attention: risk of crushing hands


Contact: CORRADI or the authorised retailer

GENERAL PRECAUTIONS


Before undertaking any assembly, maintenance or cleaning operations, make sure that you have fully understood the indications in this manual.
Failure to respect the regulations contained herein relieves CORRADI of all responsibility for damage caused to persons, animals, property and/or components.

The installation personnel must scrupulously respect the local accident prevention regulations in force.


All electrical connections for movement, installation of automation accessories etc must only be made by qualified personnel.

If the structure is motorised and installed at a height of less than 250 cm from the ground, the control button must be of the 'dead-man' type and the opening and closing operations must be clearly visible.


In the case of any incompatibility, contact CORRADI.

GENERAL SAFETY PRECAUTIONS
Destination of use

The IMPACT is designed for a specific use (as outlined in this manual); any use other than that envisaged shall relieve CORRADI S.p.A. of any responsibility.

When using the canvas it is good practice to remember that all moving parts can be a source of danger.


Do not remove any coverings after the installation and, if they are removed for maintenance, make sure that before removal the power supply is cut off (in case of motorised movement).

It is recommended never to intervene on moving parts and to ensure that no operator is near to the canvas before reactivating it after a technical or maintenance intervention.


It is compulsory to cut off the power supply (if present) when carrying out an installation, repair or adjustment intervention.


It is recommended that a caution sign be placed on the electrical master switch with the following indications:
"Attention! Do not touch. Service personnel at work".

PRECAUTIONS AND WARNINGS

The maintenance and installation personnel (installers, electricians etc.) must have sufficient expertise and psychophysical and attitudinal requirements for undertaking the tasks at hand.
Always check the correct mounting and working efficiency of the electrical and manual drives during the assembly.


In case of anomalies, immediately stop the work and contact the service department of CORRADI.

SYMBOLS

The use of non-original spare parts, or unauthorised interventions or modifications shall relieve CORRADI of any responsibility for damage caused to persons animals or property.
It is absolutely forbidden to tamper with the fixings, the supports, the guides, the fixtures, the command and idler units and any other component of the IMPACT.

ATTENTION
All values indicated are expressed in centimetres (unless otherwise specified).

PRELIMINARY CHECKS
On receipt of the packed goods and before starting their assembly, check the integrity of the material and the presence of all the components necessary for the installation.
Carefully follow the information contained in the "Material check, unpacking and preparation" section.

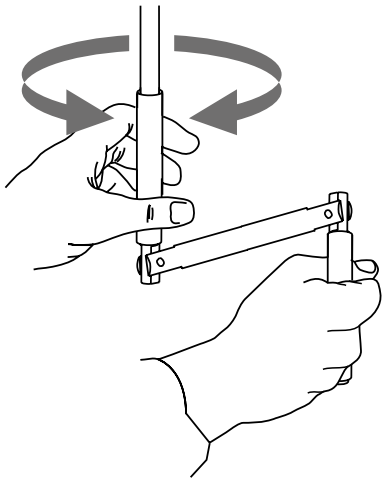
In case of anomalies immediately contact the authorised retailer or CORRADI.

DISPOSAL OF PACKAGING MATERIALS
Divide the various packaging according to the material used (cardboard, nylon, polystyrene etc.) and dispose of them separately in compliance with the regulations in force.

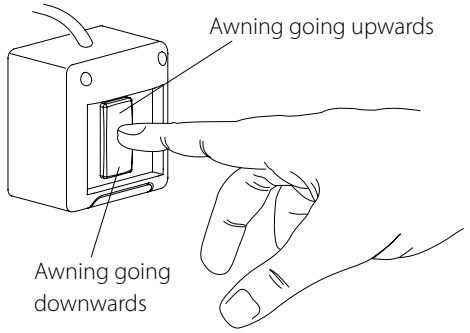
CONTROLS AND VERSIONS

IMPACT
It is custom designed and built for the client to protect from the sun and inclement weather, with the exception of snow; The structure is fully self-supporting and may be used in winds of up to class 8 on the Beaufort scale as shown in table 2.
On the anchored canvas version, the canvas must be removed if the wind exceeds the values indicated in table 2.

MANUAL CONTROL
If the **IMPACT** is fitted with manual drive, to open and close the canvas, insert the winding handle in the seat of the gearbox and turn clockwise (to raise the canvas) or anticlockwise (to lower the canvas).



ELECTRIC COMMAND
In case of **IMPACT** with a wall-switch, push the switch in the low area in order to move the awning downwards, push it in the up area to move the awning upwards. Once you release the switch the awning will stop.
The drive must be installed between 90 and 120 cm off the ground.



RADIO CONTROL
If **IMPACT** is equipped with radio control, the canvas lift, lower and stop movements are explained in the "motor and automatism" manual.

WALL MOUNTED CONTROLS (CUSTOMER RESPONSIBILITY)
To lower the canvas, press the lower part of the button, to raise the canvas, press the upper part. When the button is released the canvas will stop its movement immediately.

MATERIAL CHECK, UNPACKING AND PREPARATION

FACSIMILE PLATE

PRELIMINARY CHECKS
The EXYL is delivered in a strong package that protects it from knocks or scratches.
There is a label on the package that indicates:
- **Manufacturer data**
- **Order number**
- **Name of addressee**
- **Customer reference number**
- **N° of the parcel**

Before opening the package, check that the data corresponds with that in your possession.

All the elements necessary for mounting the structure, the accessories needed for mounting and the installation, the use and maintenance manual are inside the package.

N.B.:
fixing elements such as screws, plugs etc. are not included and must be chosen by the installer based on the type of fixture foreseen (wall, wood, metal etc.).

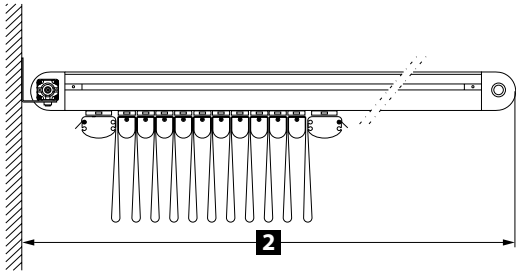
proceed as follows:
- Remove the elements from the packaging.

Attention:
do not use a knife to avoid the risk of ruining the paint or metal elements.

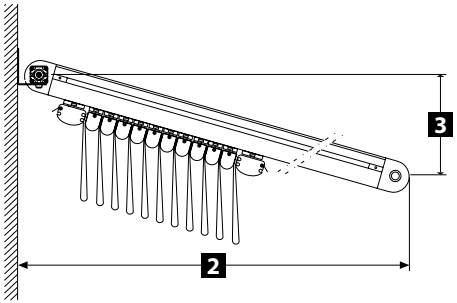
VERSIONS AND MOTOR-DRIVES

1 **WIDTH**
2 **PROJECTION**
3 **SLOPE**

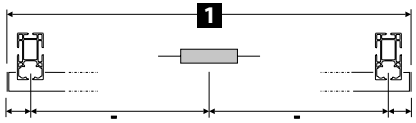
FLAT IMPACT



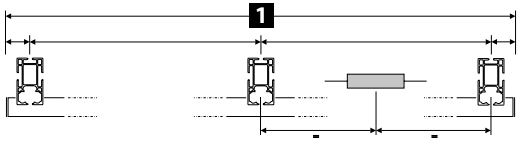
TILTED IMPACT



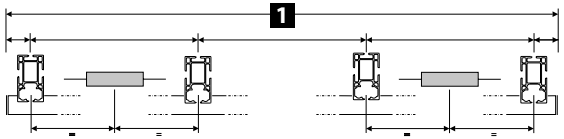
IMPACT 2 GUIDES



IMPACT 3 GUIDES

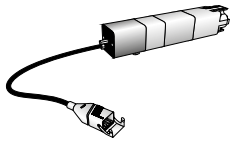


IMPACT 4 GUIDES



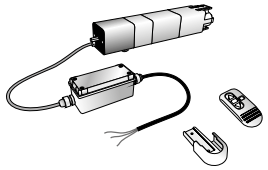
VERSIONS AND MOTOR-DRIVES

ELECTRICAL TYPE 1
PLAN motor



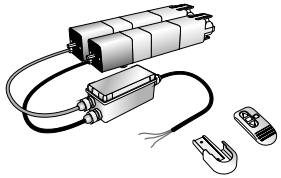
A 220 volt - 178 W motor reducer complete with button limit switch for ascent and descent. Ideal for flat awnings with 2, 3, or 4 guides because the canvas is never stretched; or for tilted awnings up to 3 guides with a maximum projection of 350 cm.

ELECTRICAL TYPE 2
SLOPE motor
Type 2 control panel



A 220 volt - 218 W motor reducer with control unit fitted with microprocessor to control the voltage and a receiver for the radio-controlled (433.92 MHz) remote control with a two channel transmitter. Ideal for tilted awnings with 2 or 3 guides to guarantee with every manoeuvre the correct canvas tension, which could change due to the dilatations of the fabric or the guides caused by thermal excursions.

ELECTRICAL TYPE 3
1 SLOPE motor (control)
2 PLUS motor
Type 3 control panel



A 220 volt- 218+218 W motor reducer with control unit fitted with microprocessor to control the voltage and for controlling the operation of two motors in series on the same axis, a radio receiver for the radio-controlled (433.92 MHz) remote control with a two channel transmitter. Ideal for tilted awnings with 4 guides to guarantee with every manoeuvre the correct canvas tension, which could change due to the dilatations of the fabric or the guides caused by thermal excursions.

1 MOUNTING GUIDES

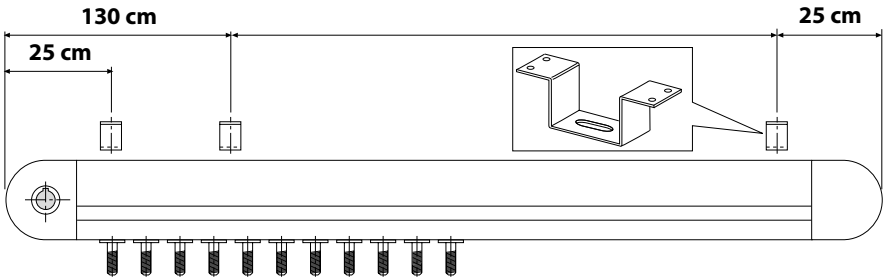


fig. 1
Distances between supports

- The minimum number of supports to be mounted is 3 and they must be positioned as indicated in the figure.
- The number of supports can vary depending on the length of the guide; position additional ones requested by dividing the distance (**X**) into equal parts.

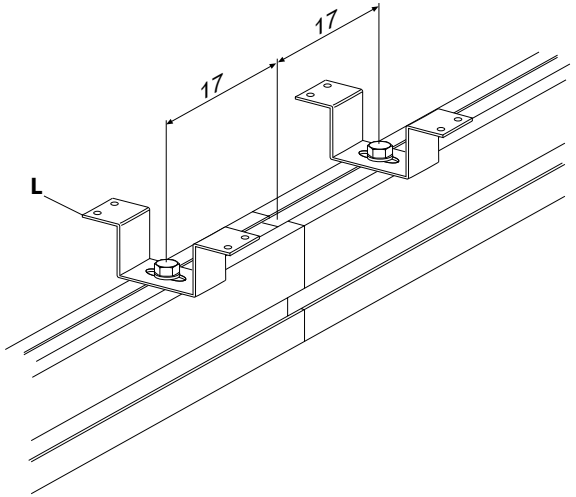


fig. 2
Distances between supports for guide joints

Should the guide consist of two joined elements, position two supports (**L**) at a distance as indicated in the figure.

1 MOUNTING GUIDES

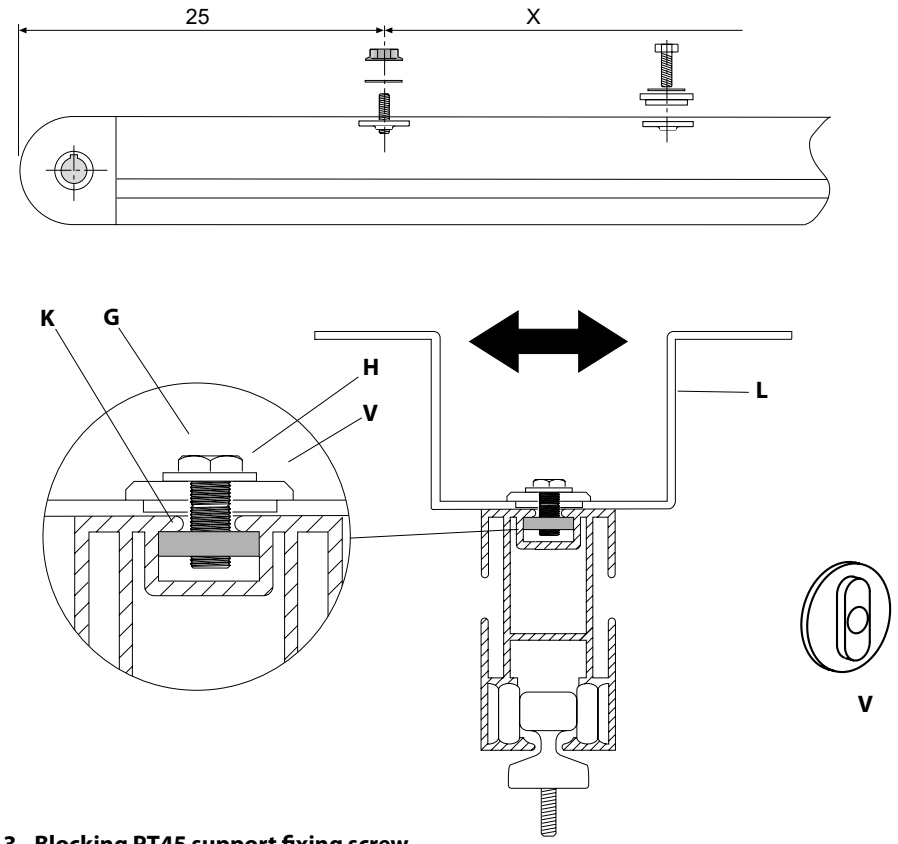


fig. 3 - Blocking PT45 support fixing screw

- Fix the support (**L**) to the guide by tightening the relative screw (**G**) on the slide (**K**) inserted in the guide, with the washer (**H**) and the special washer (**V**) until fully tightened.

NOTE: The first transversal support (**L**) must be fixed with a dowel and a nut, all the others with the screw (**G**). Once tightened, the screw allows the free movement of the guide on the transversal support (**L**).

1 MOUNTING GUIDES

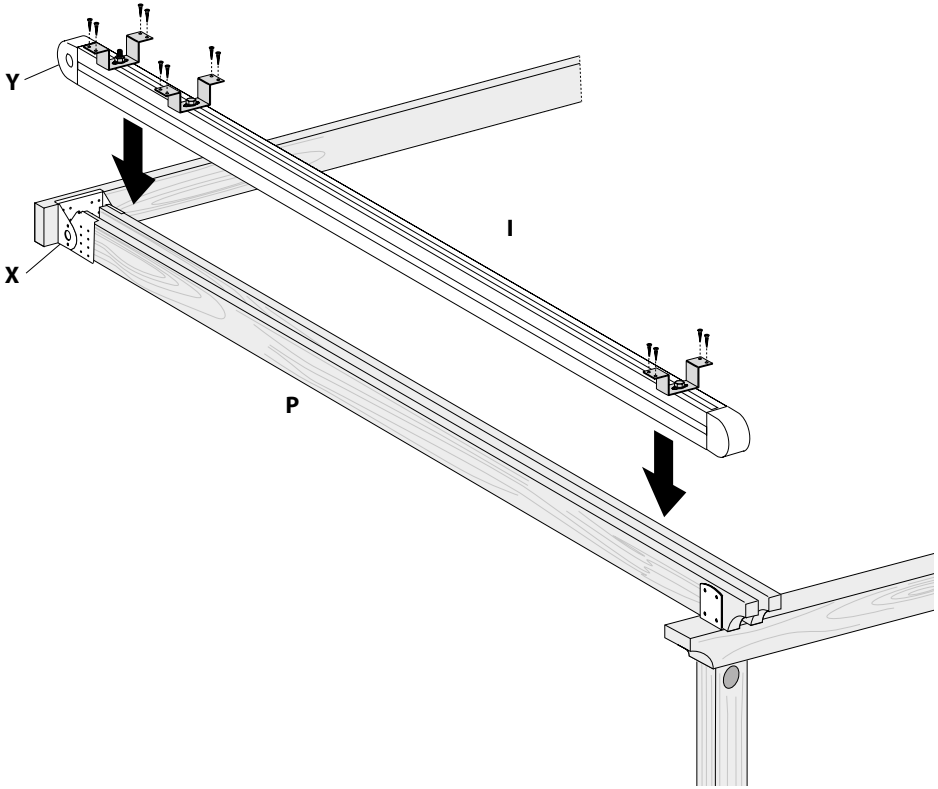


fig. 4 - Guide Assembly

- Insert the guide (**I**) between the two supporting beams (**P**) and position it so that the hole (**Y**) is perfectly centred with holes on the plates of the support beams (**X**) and then fix the supports to the supporting beams (**P**) with the relative screws (supplied).

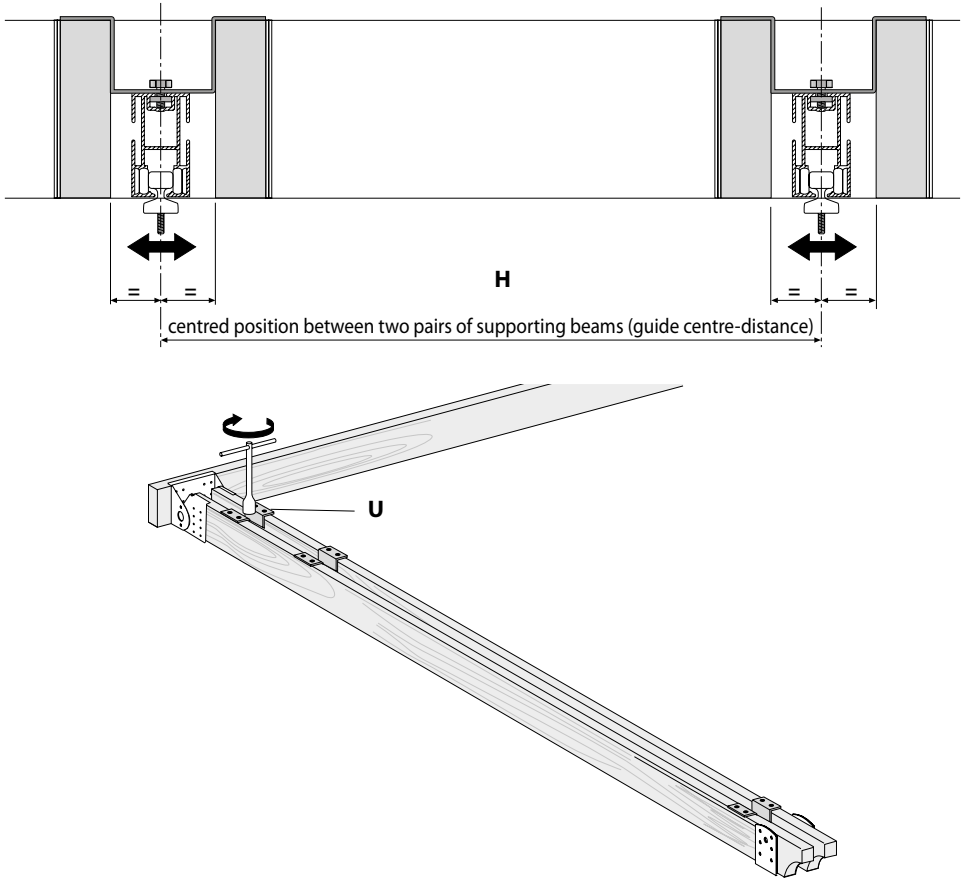


fig. 5 - Guide centering

- After having checked the centre distances with the project design, just lock the bolt on the first support from the wall beam (**U**).
  (**H**) is the centre distance between the guides and the two pairs of supporting beams.

2 MOUNTING TRANSMISSION SHAFTS

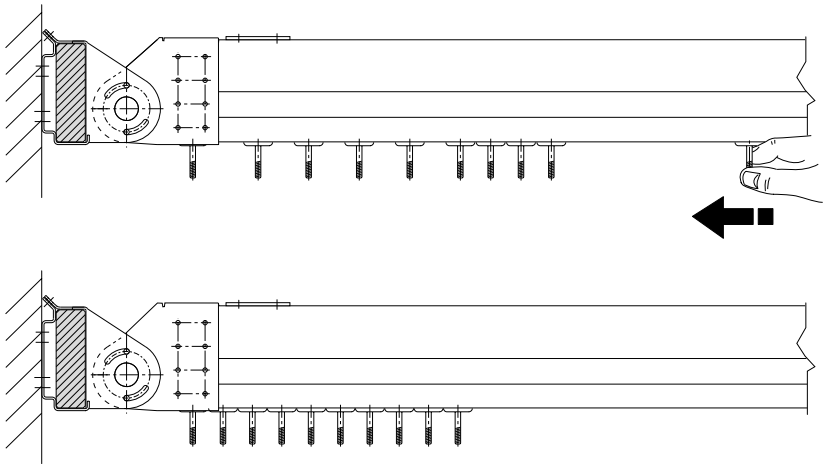


fig. 6 - Aligning the slides

- Move the drive slider of the runners to the limit switch (towards the wall) so that all the intermediate sliders are grouped together.

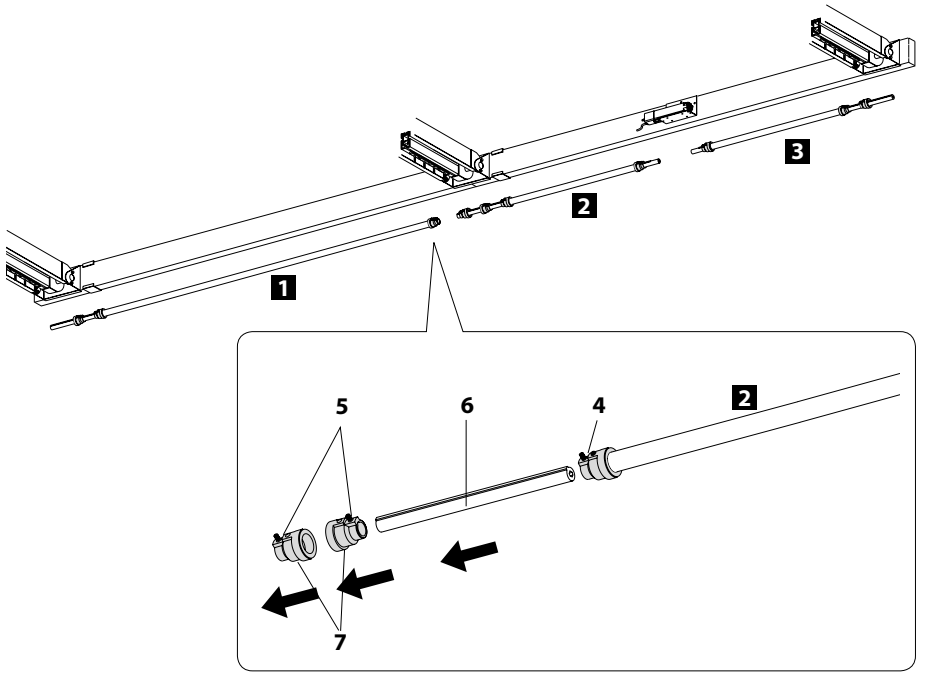


fig. 7 - Mounting transmission shaft

- The transmission unit is made up of three pre-assembled shafts: secondary transmission shaft (**1**) left primary transmission shaft (**2**) right primary transmission shaft (**3**).
- Take the shaft (**2**) and loosen the screws (**4**) and (**5**). Remove the drive shaft (**6**) and the two bushes (**7**).

ATTENTION:

DO NOT DISMOUNT THE PRE-ASSEMBLED SHAFTS.

2 MOUNTING TRANSMISSION SHAFTS

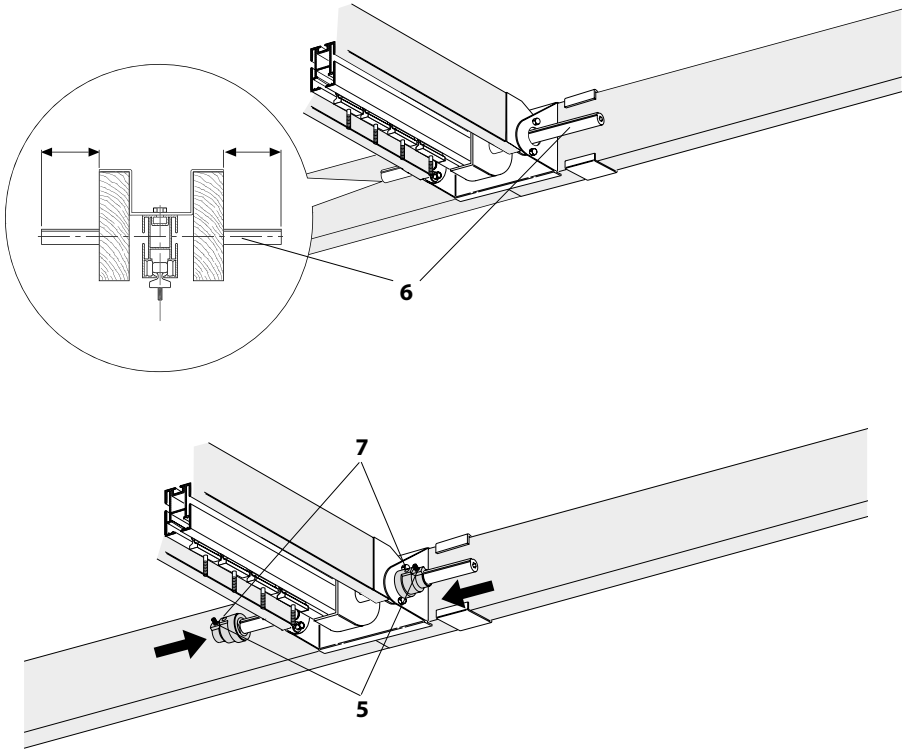


fig. 8 - Shaft installation

- Insert the shaft (**6**) in the central guide and position it so that the two protrusions on each side are of the same length.
- Insert the two bushes (**7**) on both sides and lock them with the screws (**5**).

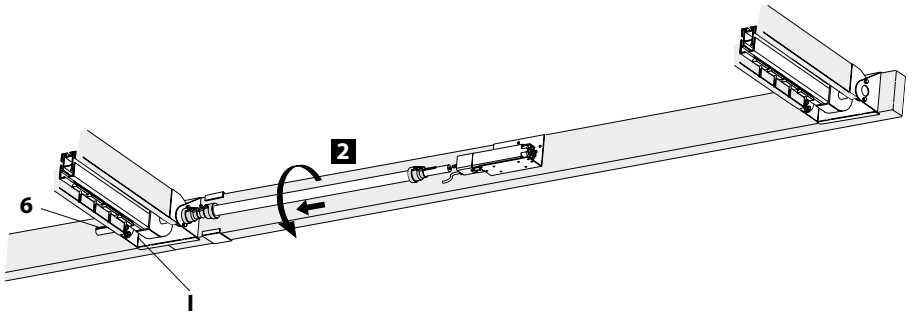


fig. 9 - Shaft installation

- Slide the shaft (**2**) on the drive shaft (**6**), rotating it to compact the sliders in the runner (**I**).

2 MOUNTING TRANSMISSION SHAFTS

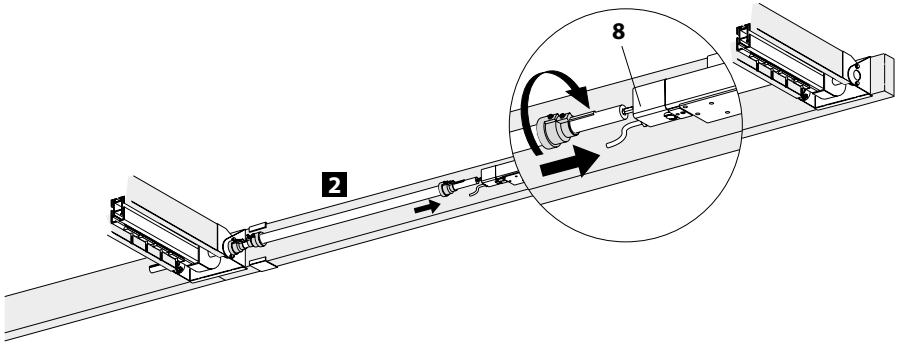


fig. 10 - Shaft installation

- Run the shaft (**2**) into the hexagonal motor shaft (**8**).
- If the two hexagons do not couple during the insertion (male and female), turn the shaft (**2**) slightly, always keeping it pushed towards the motor until reaching the first coupling point.

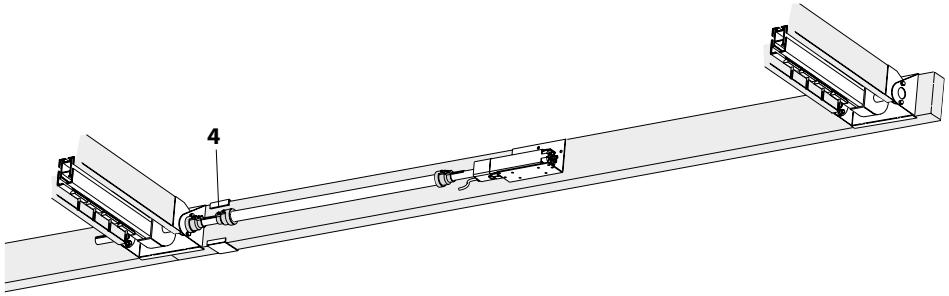


fig. 11 - Shaft installation

- Tighten the screw **(4).**

2 MOUNTING TRANSMISSION SHAFTS

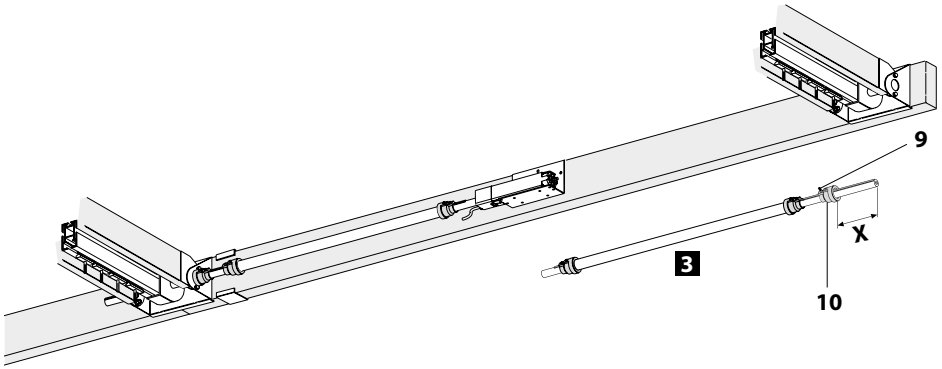


fig. 12 - Shaft installation

- Take the transmission shaft (**3**) and loosen the screw (**9**).
- Position the bush (**10**) at the quota indicated (according to the IMPACT model) and block it with the screw (**9**).

MEASURE **X**:
IMPACT 45 - 12.5 cm
IMPACT 60 - 14 cm

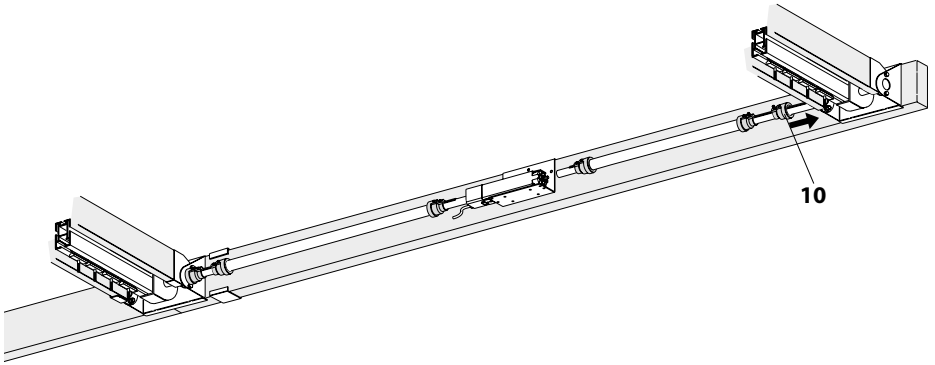


fig. 13 - Shaft installation

- Insert into the runner (**I**) until up against the bush (**10**).

2 MOUNTING TRANSMISSION SHAFTS

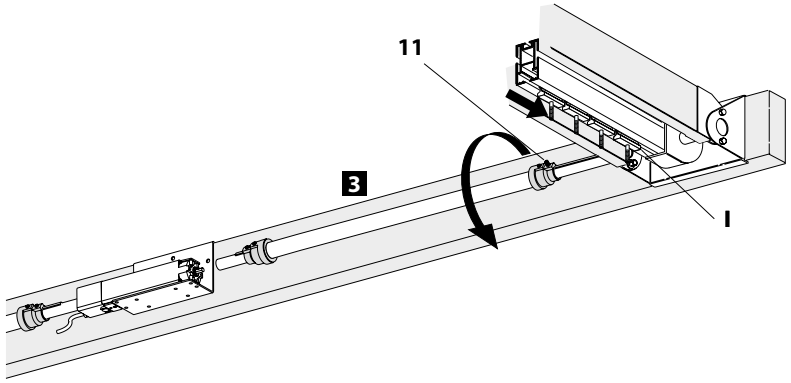


fig. 14 - Shaft installation

- Loosen the screw (**11**) and rotate the shaft (**3**) to compact the sliders in the runner (**I**).

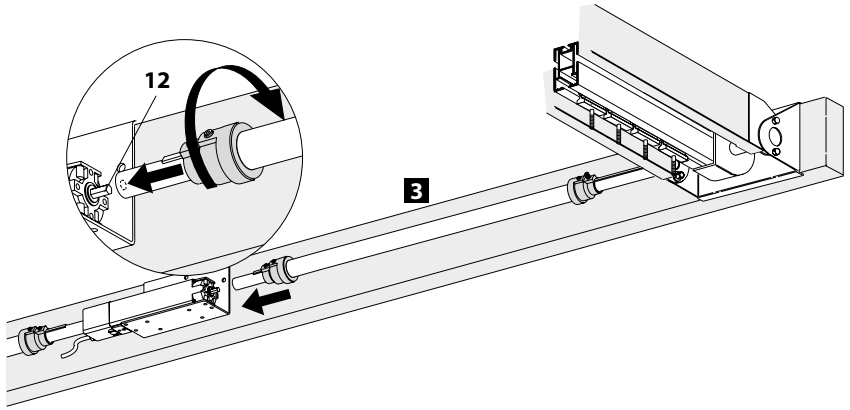


fig. 15 - Shaft installation

- Run the shaft (**3**) until it inserts in the hexagonal pin of the motor (**12**).
- If the two hexagons do not couple during the insertion (male and female), turn the shaft (**3**) slightly, always keeping it pushed towards the motor until reaching the first coupling point.

2 MOUNTING TRANSMISSION SHAFTS

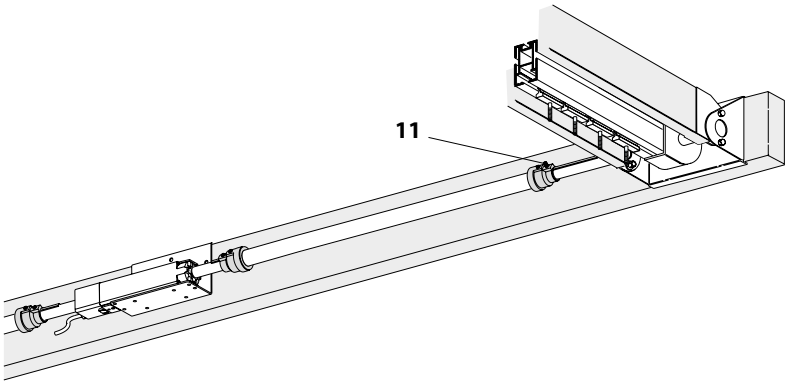


fig. 16 - Shaft installation

- Tighten the screw (**11**).

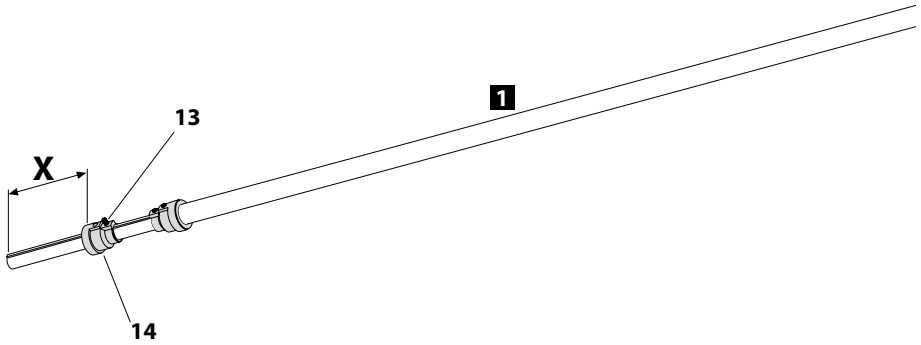


fig. 17 - Shaft installation

- Take the shaft (**1**) and loosen the screw (**13**).
- Position the bush (**14**) at the quota indicated (according to the IMPACT model) and block it with the screw (**13**).

MEASURE **X**:
IMPACT 45 12.5 cm
IMPACT 60 14 cm

2 MOUNTING TRANSMISSION SHAFTS

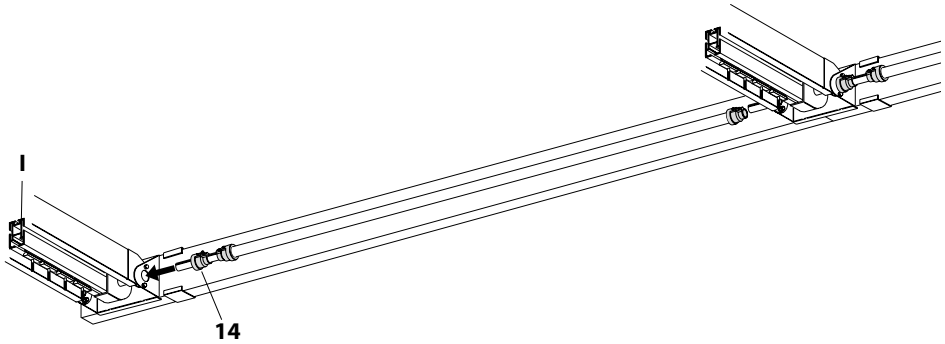


fig. 18 - Shaft installation

- Insert the shaft into the runner (**I**) until up against the bush (**14**).

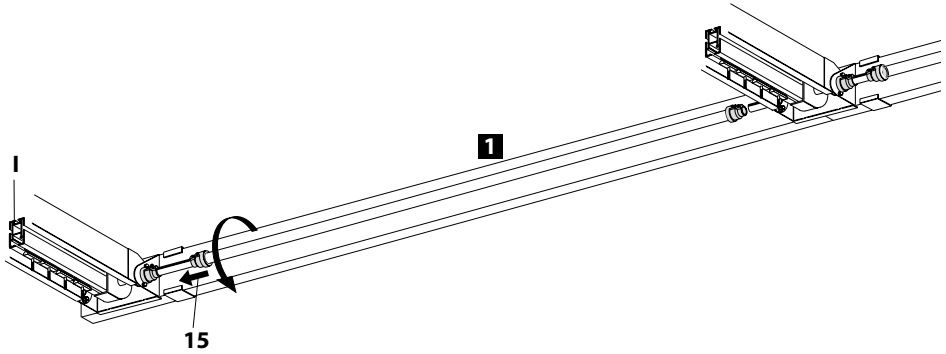


fig. 19 - Shaft installation

- Loosen the screw (**15**), run the shaft (**1**) rotating it (see fig. 19) to compact the sliders in the runner (**I**).

2 MOUNTING TRANSMISSION SHAFTS

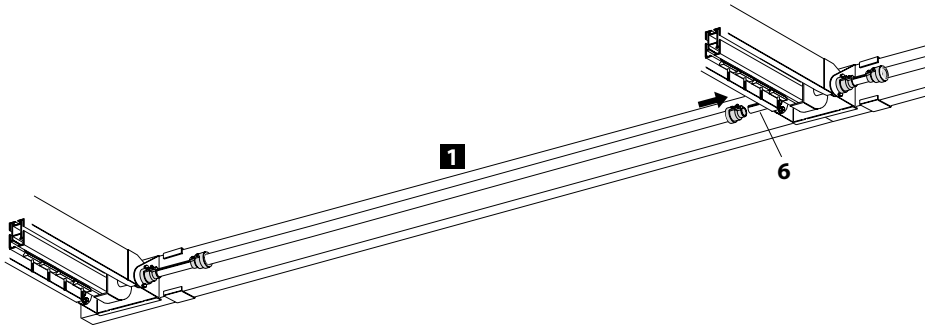


fig. 20 - Shaft installation

- Fit the shaft (**1**) on the motor drive shaft (**6**).

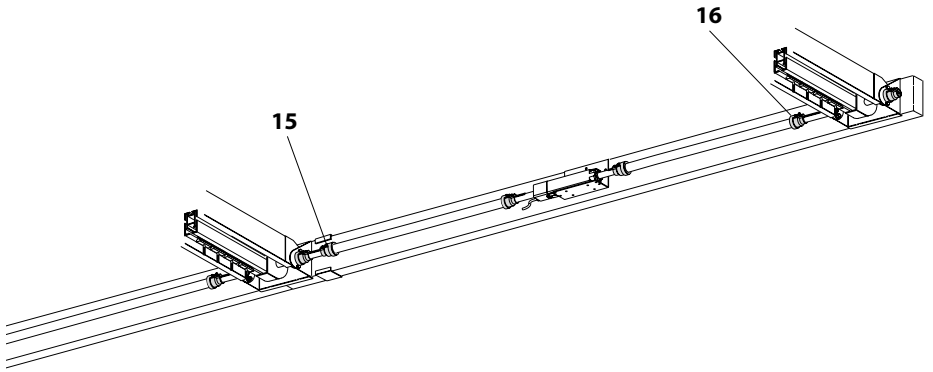


fig. 21 - Shaft installation

- When the shaft is fitted snug against the motor, tighten screw (**15**) and screw (**16**), and make a general check on all the other screws to see that they are perfectly tightened.

- Check the correct working efficiency of the movement by moving the winding handle if the movement is manual, or else by temporarily connecting the electric motor.

3 IMPACT CANVAS AWNING ASSEMBLY

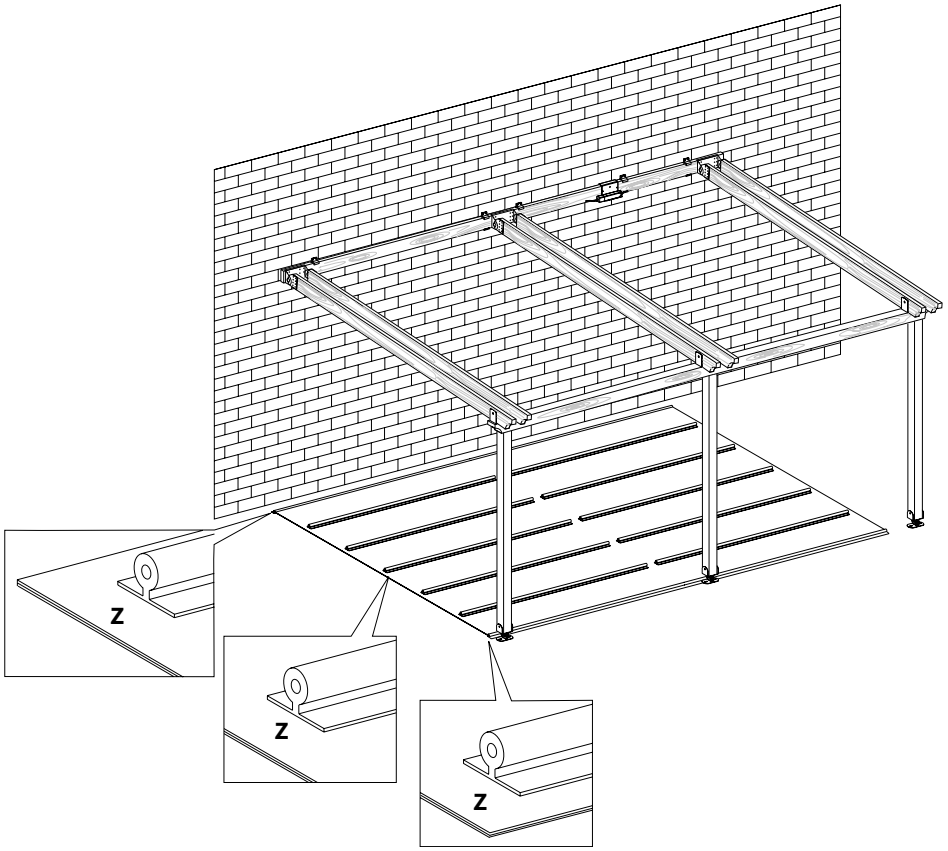


fig. 22 - Positioning the canvas awning on the ground

- Stretch out the canvas on the ground as show in the figure, with the rubber cords (**Z**) facing upwards.

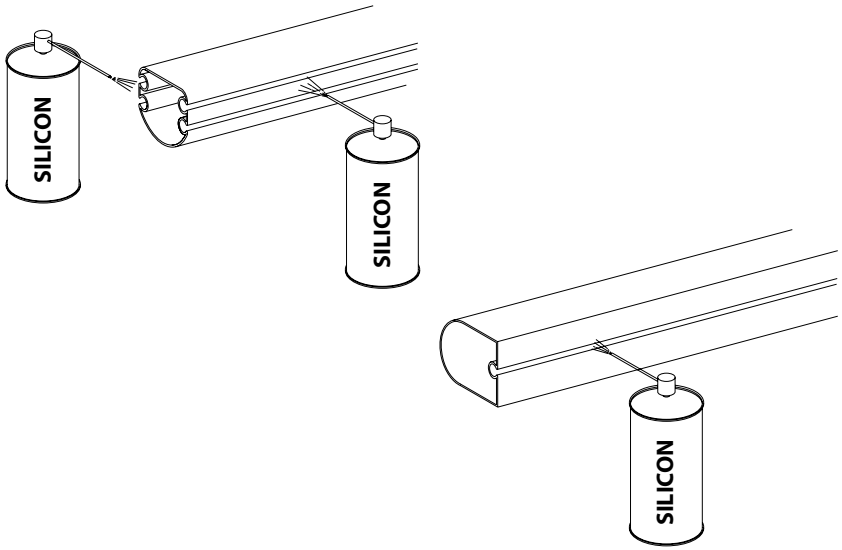


fig. 23 - Lubricating the windbreak tubes

- Prepare the windbreak tubes, taking care to spray the silicon for the entire length of the slots to facilitate the insertion of the canvas as shown in the figure.

3 IMPACT CANVAS AWNING ASSEMBLY

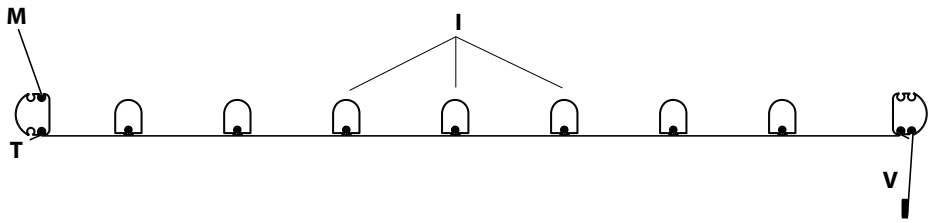


fig. 24 - Canvas awning final composition

- The figure shows the final composition of a canvas awning complete with front pelmet (**M**), pelmet with Velcro (**V**), intermediate tubes (I) and terminal tubes (**T**).

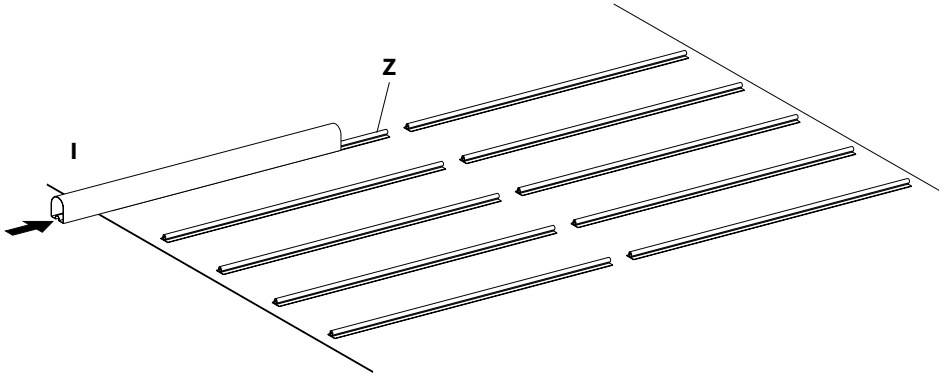


fig. 25 - Canvas awning assembly

- Insert the windbreak tubes (**I**) in the respective rubber cords of the canvas awning (**Z**) as shown in the figure.

3 IMPACT CANVAS AWNING ASSEMBLY

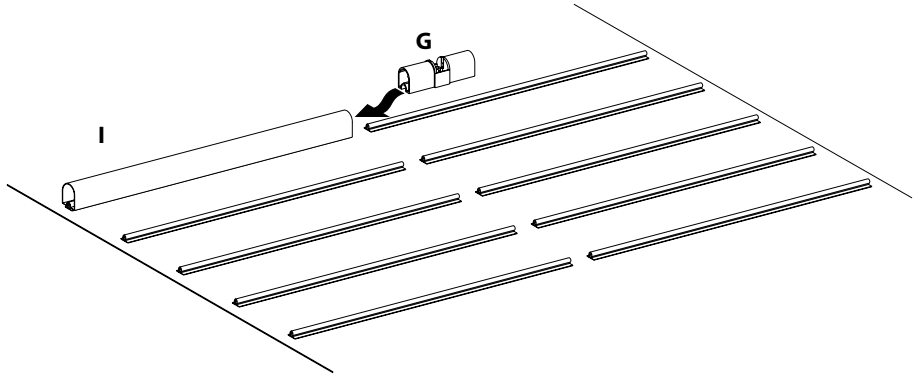


fig. 26 - Canvas awning assembly

- Insert the supports of the central sliders (**G**) in the respective windbreaker tubes (**I**).

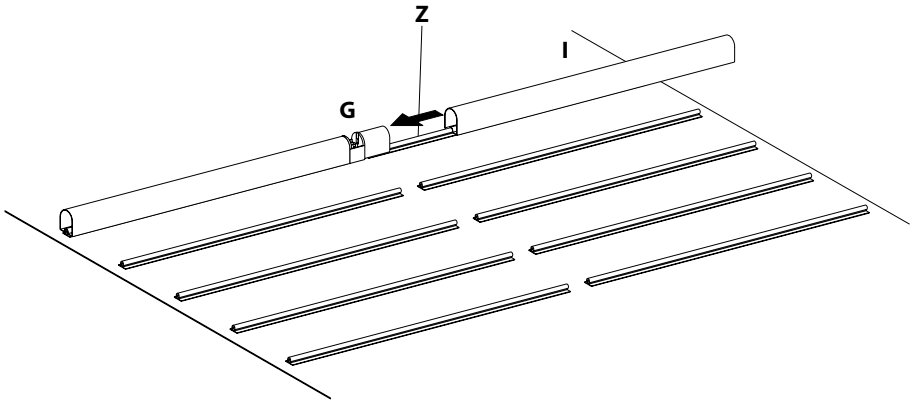


fig. 27 - Canvas awning assembly

- Fit the successive windbreaker tubes (**I**) on the canvas awning rubber cords (**Z**) and snug against the central slider supports (**G**).

3 IMPACT CANVAS AWNING ASSEMBLY

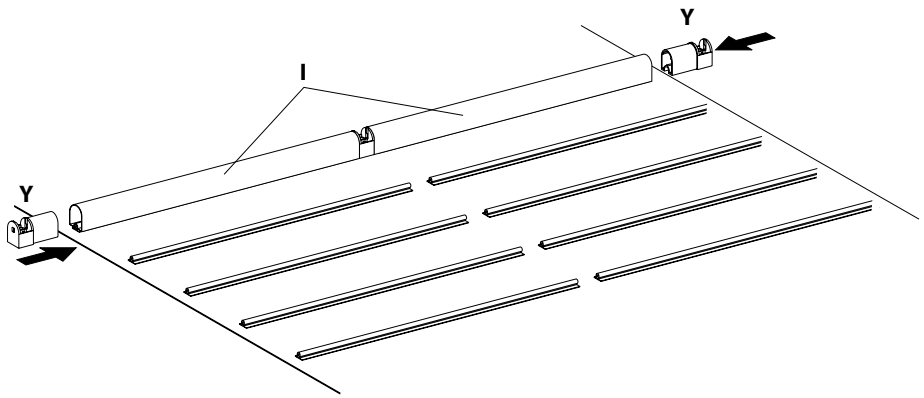


fig. 28 - Canvas awning assembly

- Insert the lateral stoppers (**Y**) in the respective windbreak tubes (**I**) on both sides.

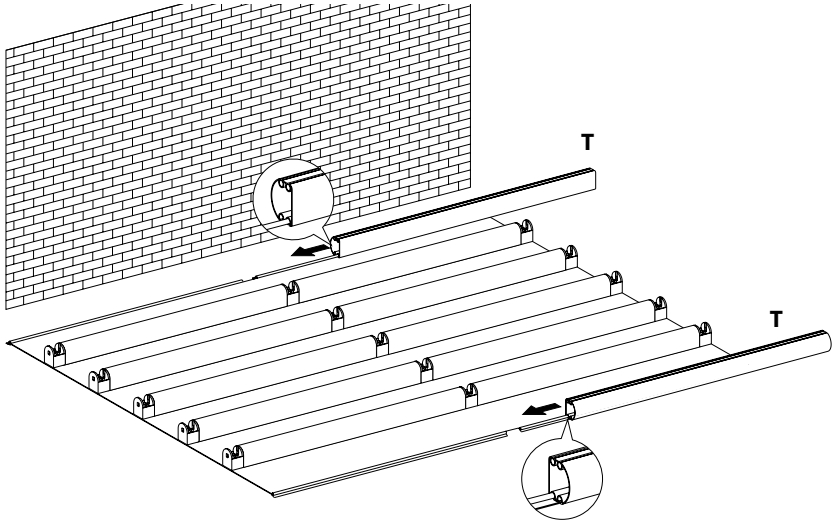


fig. 29 - Canvas awning assembly

- Insert the terminal tubes (**T**) as illustrated.

3 IMPACT CANVAS AWNING ASSEMBLY

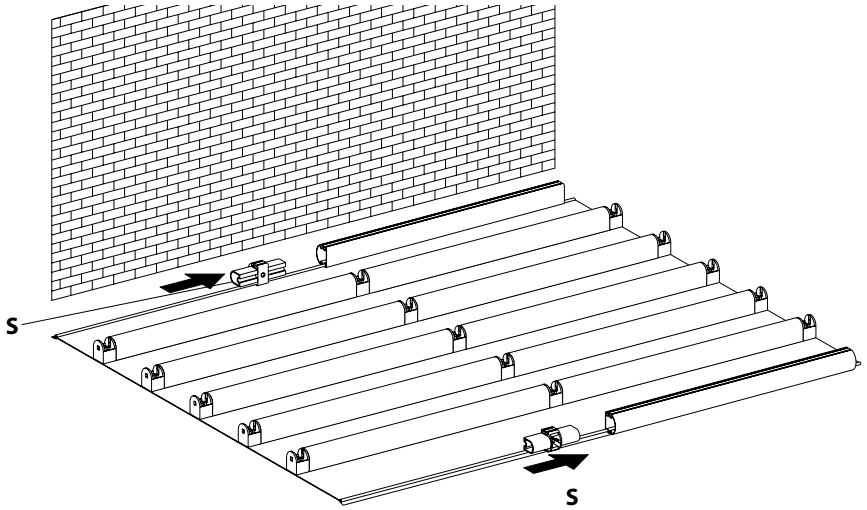


fig. 30 - Canvas awning assembly

- Insert the slider supports of the terminal tubes (**S**) as illustrated.

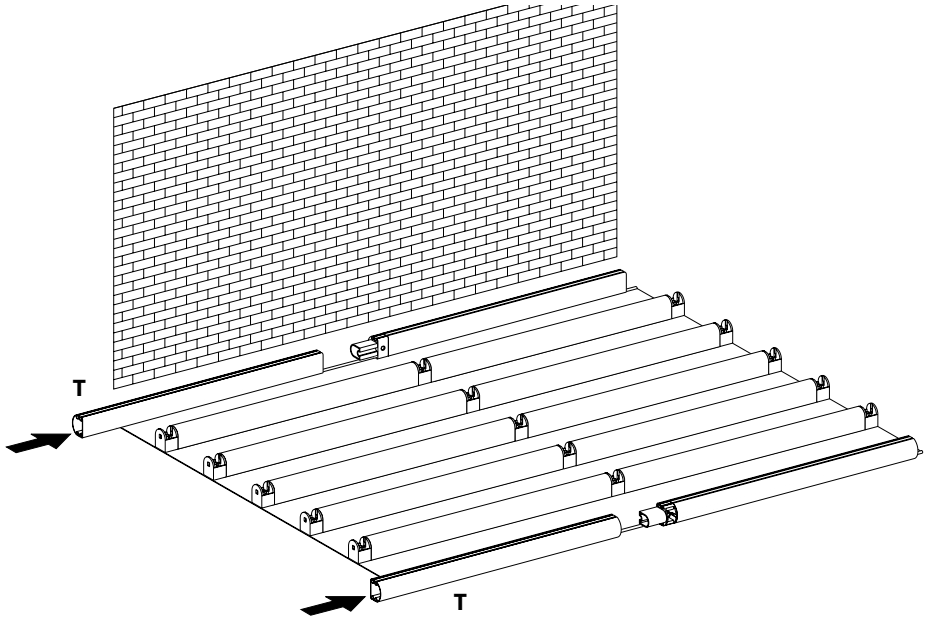


fig. 31 - Canvas awning assembly

- Insert the terminal tubes (**T**) as illustrated.

3 IMPACT CANVAS AWNING ASSEMBLY

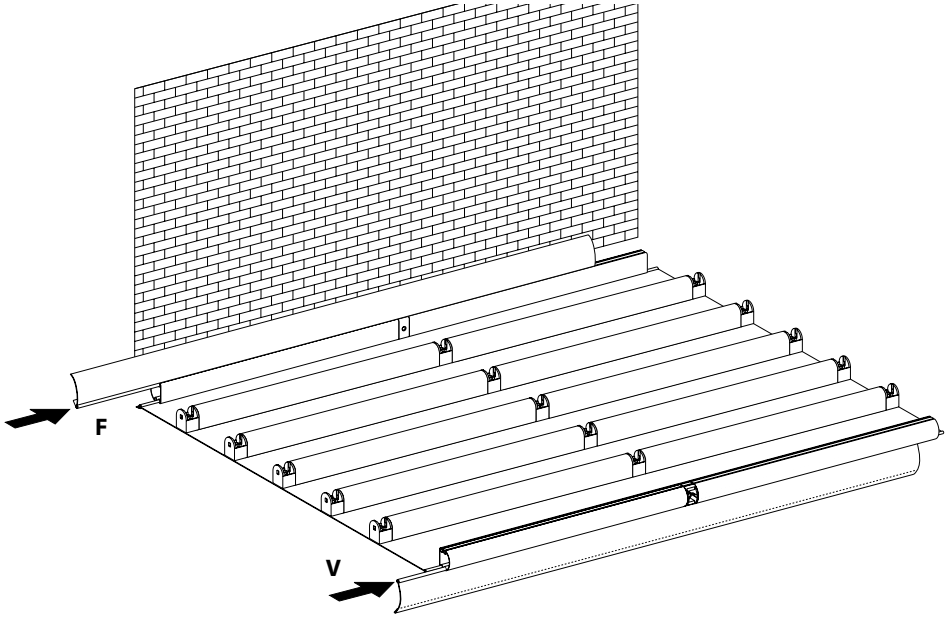


fig. 32 - Canvas awning assembly

- Insert the frontal pelmet (**F**) on the wall side terminal tube, and the pelmet with Velcro (**V**) on the outer side terminal tube.

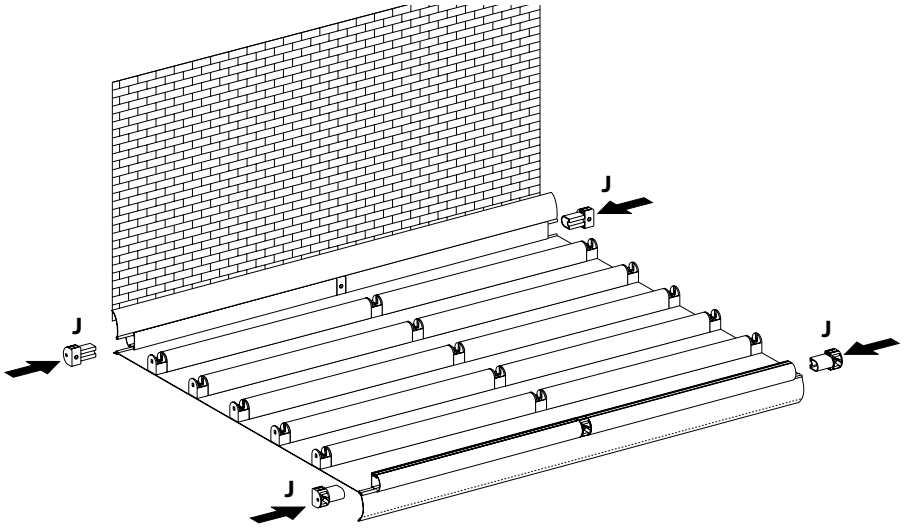


fig. 33 - Canvas awning assembly

- Insert the outside stoppers (**J**) in the respective terminal tubes on both sides.

3 IMPACT CANVAS AWNING ASSEMBLY

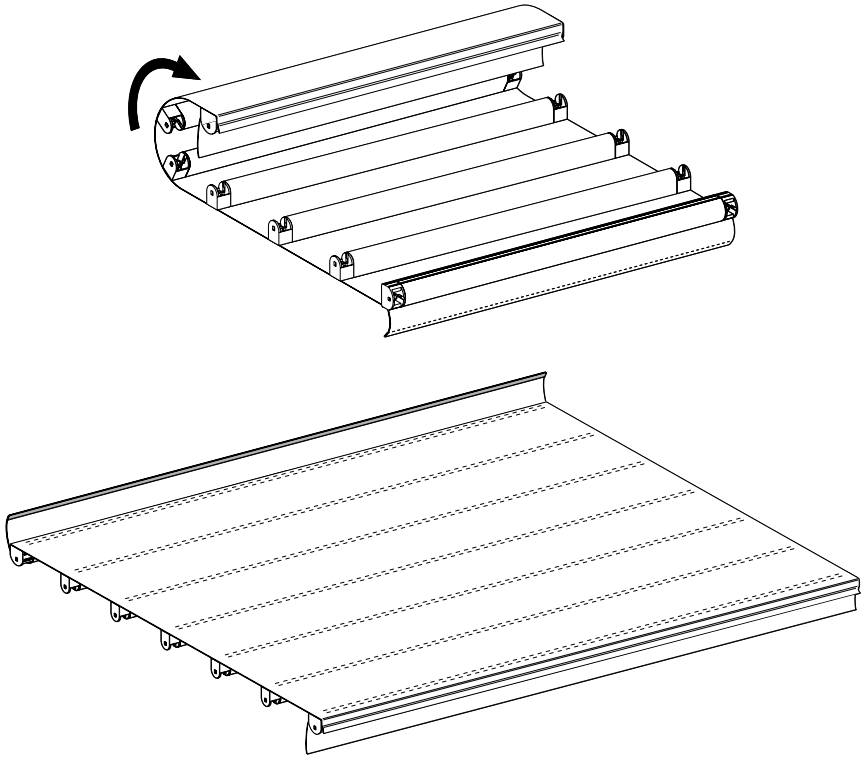


fig. 34 - Canvas awning rotation

- Rotate the canvas awning, bringing the tubes to rest on the floor as shown in the figure, and then start stretching the canvas.

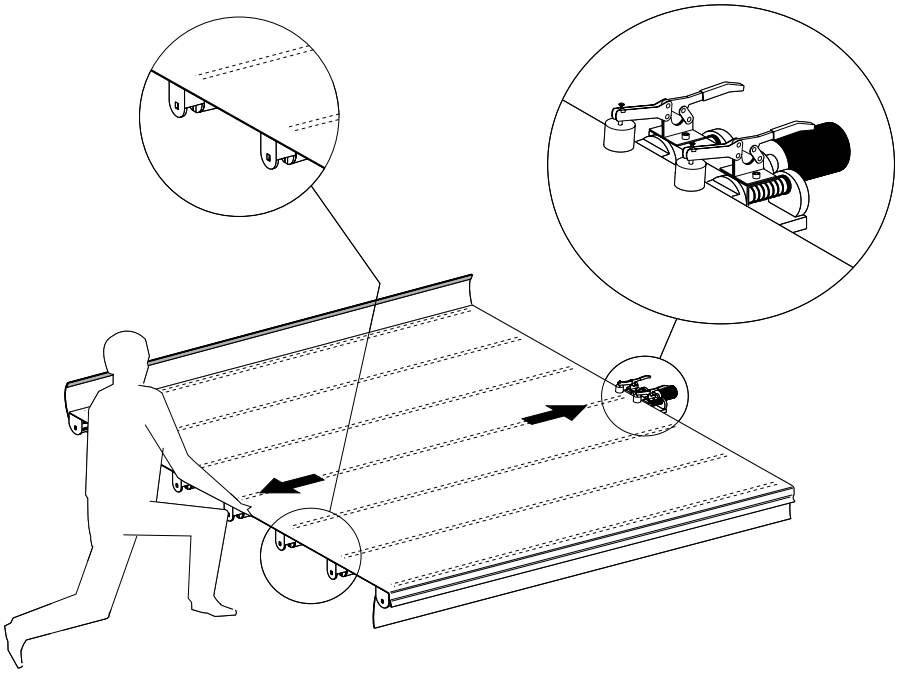


fig. 35 - Stretching the canvas

- Move one side of the canvas flush with the lateral stoppers and lock in this position with the canvas tightener.

- On the opposite extremity of the windbreak tube on which the tightener is applied, tighten the canvas by placing the knee on the end stopper of the tube.

3 IMPACT CANVAS AWNING ASSEMBLY

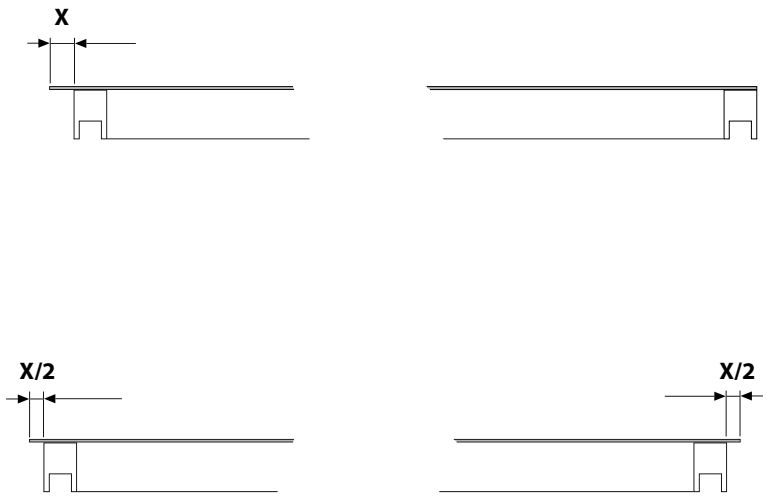


fig. 36 - Stretching the canvas

- With the canvas tightened, measure the difference (**X**) in length between tube and canvas.

- If the completely tightened canvas is longer or shorter than the tubes, divide the measure equally (**X/2**) on both sides and proceed with the canvas fixing.

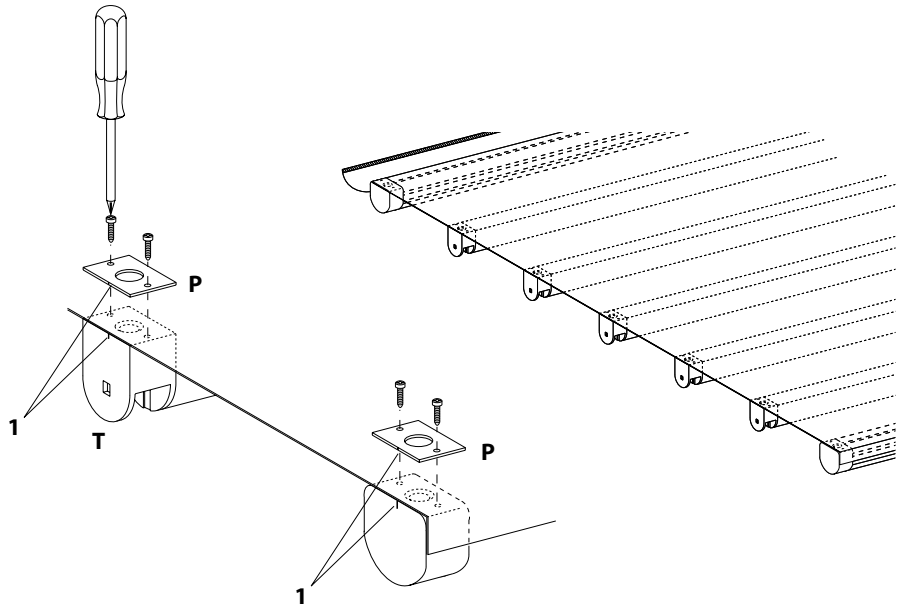


fig. 37 - Fixing the canvas on one side

- Fix the canvas to the plugs (**T**), placing the plates (**P**) on each one, with the special supplied screws.
- Make sure the locator spot on the plate coincides with the locator spot on the stopper (**1**).
- Fix all the screws from one side of the canvas.

NOTE: Never apply the plates (**P**), with the relative screws, on any intermediate joints.

3 IMPACT CANVAS AWNING ASSEMBLY

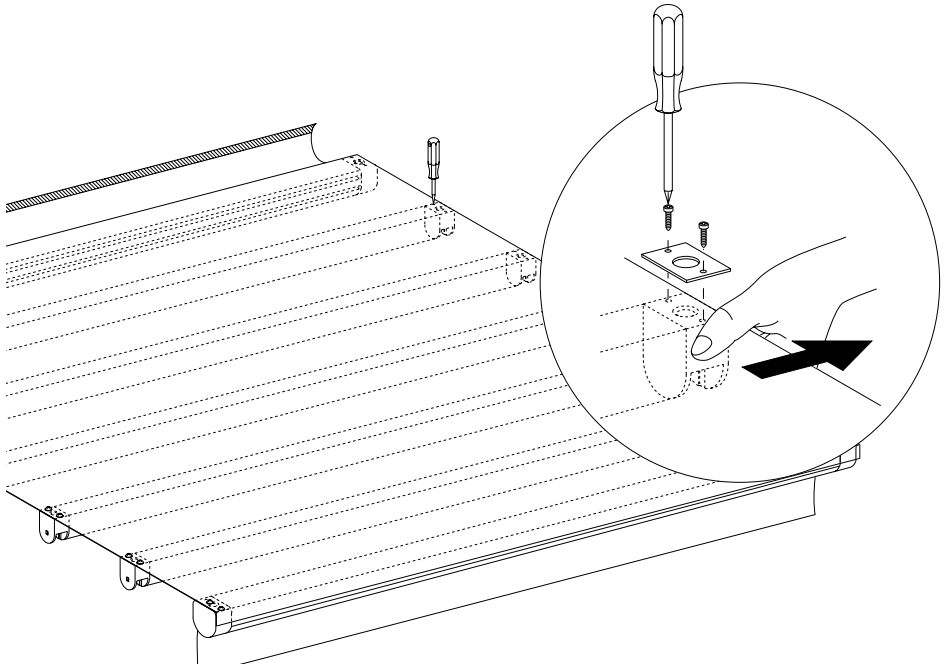


fig. 38 - Fixing the canvas on the opposite side

- When the fixing is terminated on the first side, perform the same operation on the opposite side, taking care to stretch the canvas perfectly.
- It is recommended to use the special tool contained in the LAYING KIT (optional on request)

NOTE: Tighten the canvas as much as possible.
The perfect aesthetic and functional result is directly proportional to the tension of the canvas.

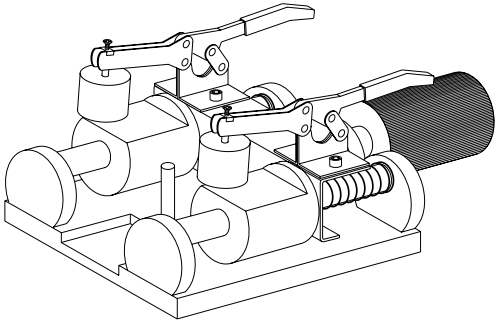


fig. 39 - Canvas tightener (optional)

- For an easy and efficient mounting of the canvas, it is recommended to use the tightener contained in the LAYING KIT (optional on request)

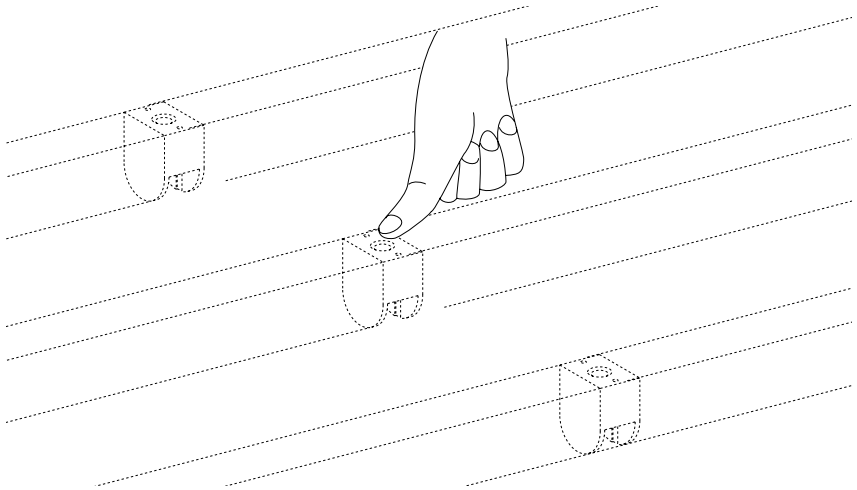


fig. 40 - Manual search for central stopper holes

- For the intermediate joints which do not require a plate, drill the canvas after having identified the hole for the stopper, by pressing with a finger on the canvas in correspondence with the stopper.

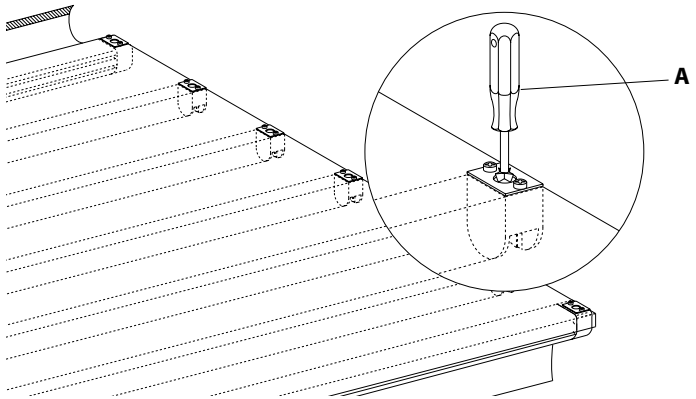


fig. 41 - Drilling the canvas

- When the canvas has been fixed to the stoppers with all the relative screws, use the special tool (**A**) to make a cut in correspondence with the hole for the passage of the slider pin (look for the position half way between the two screws fixing the canvas).

3 IMPACT CANVAS AWNING ASSEMBLY

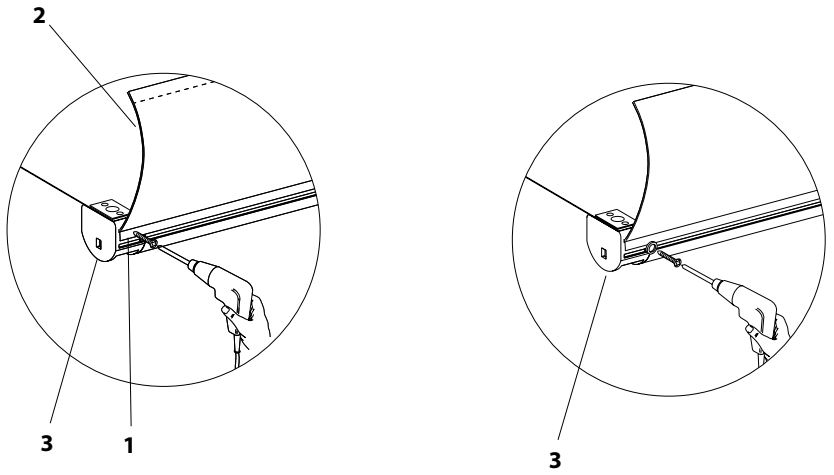


fig. 42 - Fixing the pelmets

- Fix the lip (**1**) of the Velcro pelmet (**2**) to the terminal tube with the self-tapping screws and washers to be screwed onto the plastic stoppers (**3**).
- Fix the front pelmet with the self-tapping screws and washers to be screwed onto the plastic stoppers (**3**).

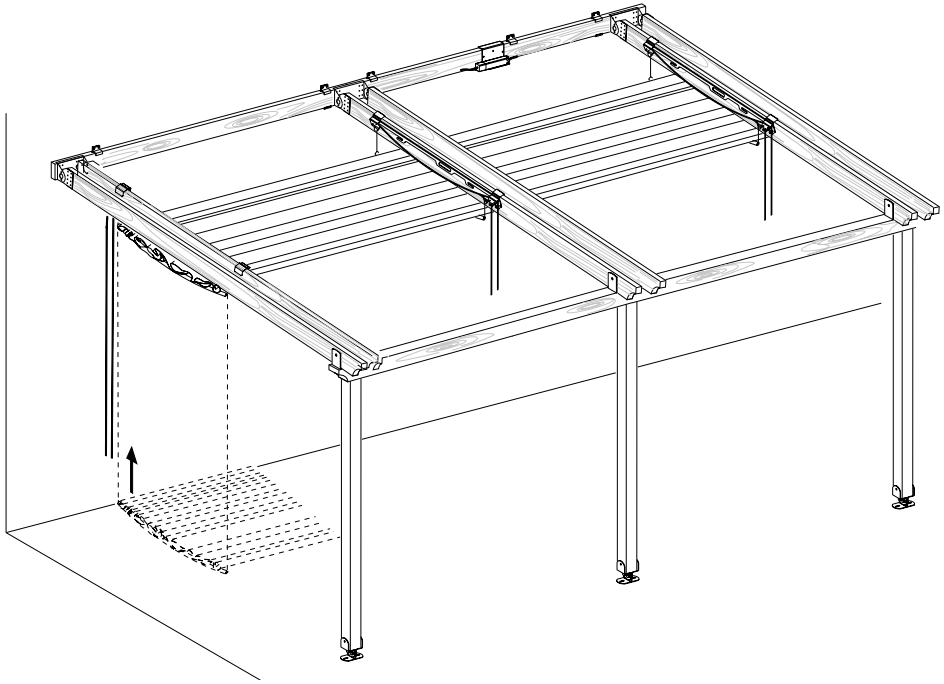


fig. 43 - Mounting canvas awning to the guides

Power up the motor with a temporary connection this operation should be carried out by a specialised technician, see in the "motor and automatism" manual.

With the supplied radio control, lower the sliders in the runners by about 80-90 cm.

Cut off the power to the motor.

Loosen the nuts on each pin of the sliders in the runners.

Hook up the lifting kits (optional) in correspondence with the position of the sliders.

Lower the bar of each lifting kit to the ground.

Rest the two ends of the canvas on the bars.

Simultaneously lift the lifting kits to bring the canvas awning up to the pins of the guides.

4 INSTALLATION OF ASSEMBLED IMPACT AWNING

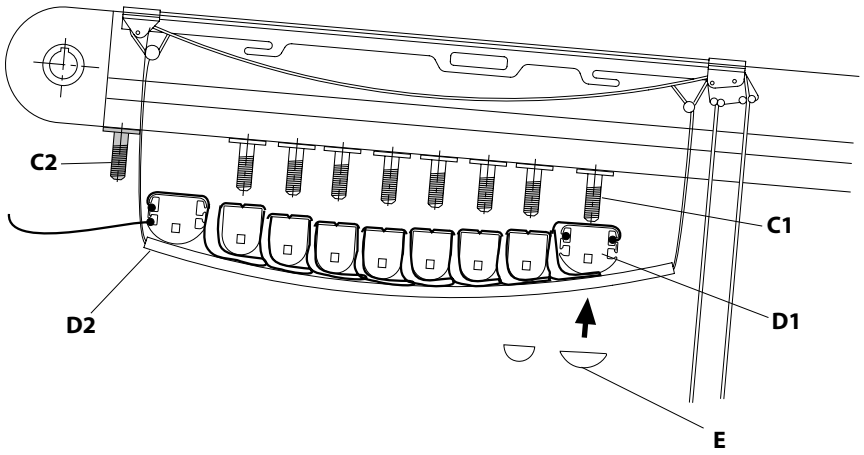


fig. 44 - Mounting the canvas on the beams

- Start by inserting the front terminal tube (**D1**) on the first slider (**C1**), then proceeding with all the other tubes excluding the last terminal on the motor side (**D2**).
- Actuate the fastener of the canvas by bringing together the sliders already inserted to the last fixed one (**C2**), only at this point can the belt spacer be reinserted, then mount the terminal tube (**D2**) on the slider (**C2**) and tighten perfectly the locking nut. Continue with the adjustment of the limit switch and mount the closing coverings (**E**).

NOTE: The nuts of the drive slider (**C1**), and the fixed one (**C2**), must be tightened up to the point where the terminal stopper is adhering perfectly to the slider itself. The nuts on the intermediate sliders must be slightly tightened up to the end of the thread. The nuts on the first and last slider must be well tightened.

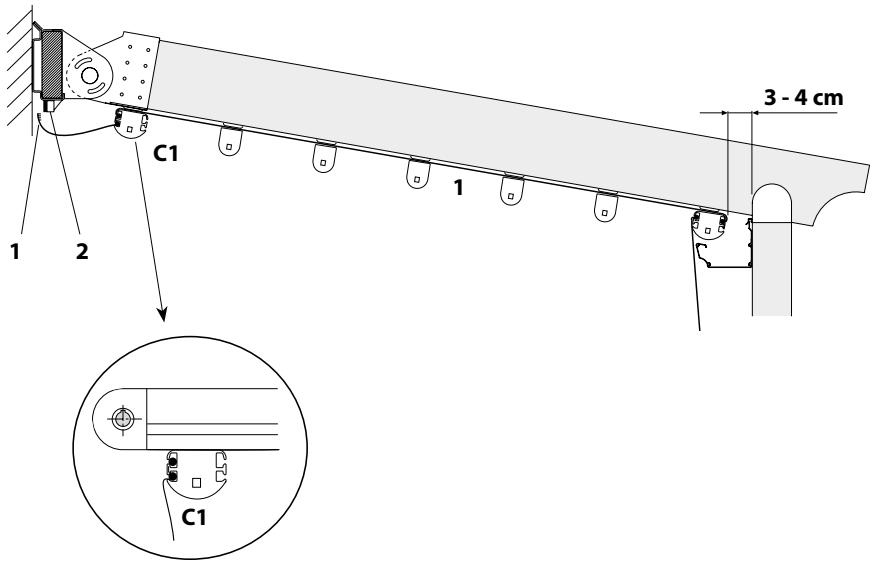


fig. 45 - Canvas awning position

- The preset position is ideal when a front water collection gutter is applied to the IMPACT; in this case, the canvas awning will stop about 3-4 cm from the frontal beam, thus allowing the rain water to run into the gutter.
- On the wall side, fix the Velcro pelmet (**1**) to the Profile with Velcro (**2**).

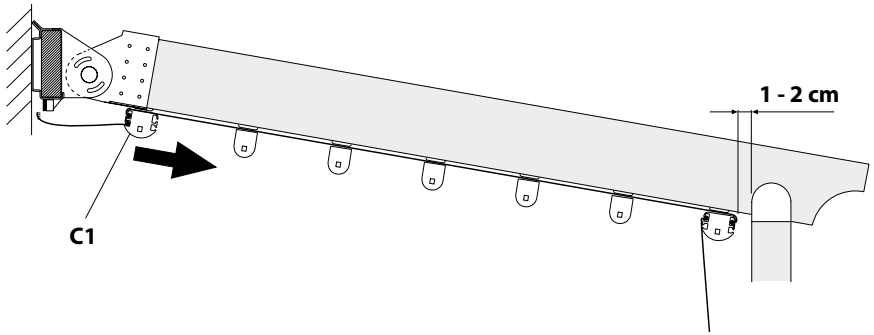


fig. 46 - Canvas awning Position

- Reduce the distance between the stretched canvas awning and the frontal beam, the opening limit switch will need to be re-programmed after having moved the first slider (**C1**) forwards by 1-2 cm, checking that there is a distance of at least 1 cm between the stretched canvas (terminal tube) and the frontal beam.

4 MOUNTING THE MOBILE GUTTER

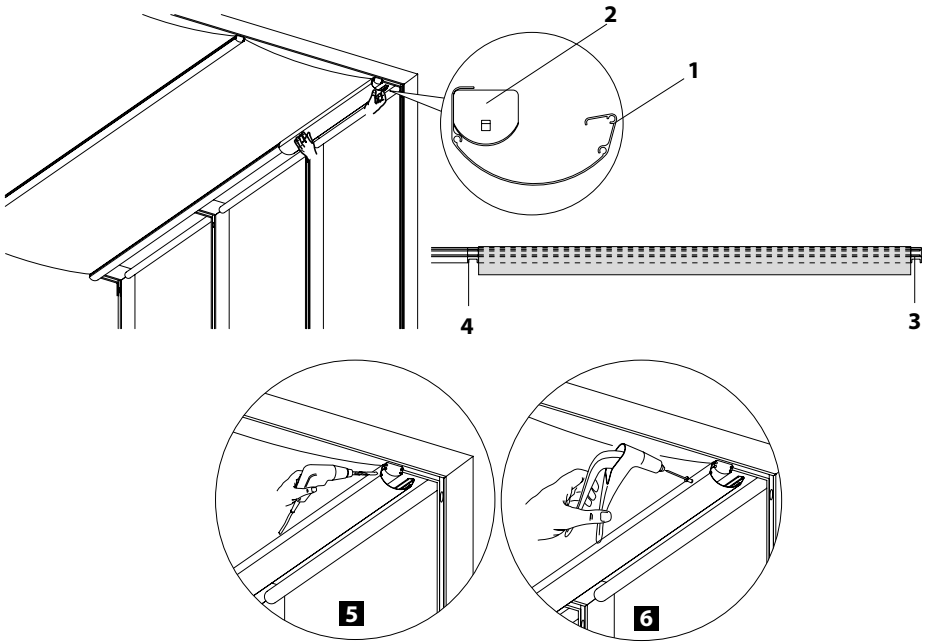


fig. 47

- Position the gutter profile (**1**) on the terminal tube (**2**); do not cover the outside stoppers (**3**) and intermediate joints (**4**).
- Drill at the two ends of the gutter and the terminal tube with a ø 4 drill bit (**5**).
- Fix the gutter with the supplied rivets (**6**).

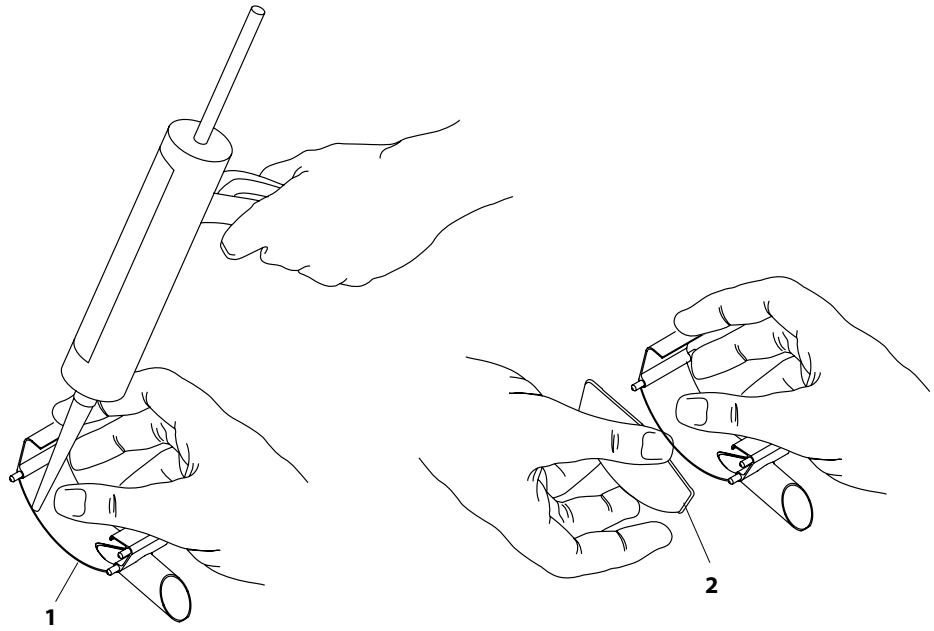


fig. 48

- Spread a line of silicon on the extremity of the gutter terminal (**1**) to fix the cover (**2**).

5 MOUNTING THE MOBILE GUTTER

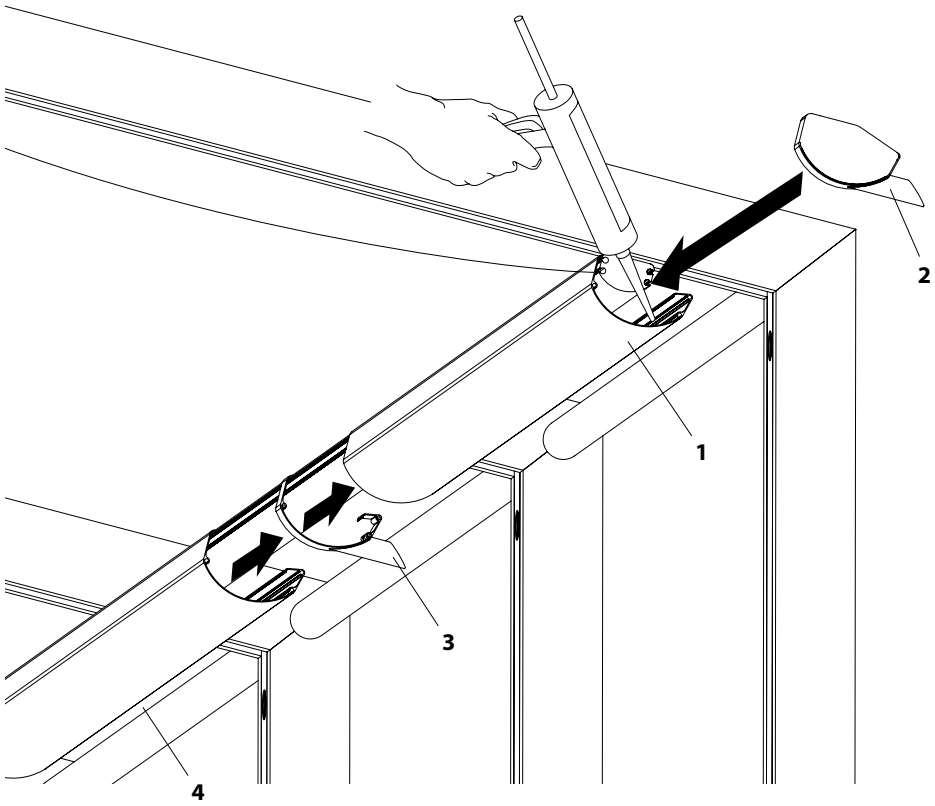


fig. 49

- Spread a line of silicon on the gutter profile (**1**) and fix the terminal with cover (**2**).
- Insert the splicing plates (**3**) and successive guttering (**4**) until completion.

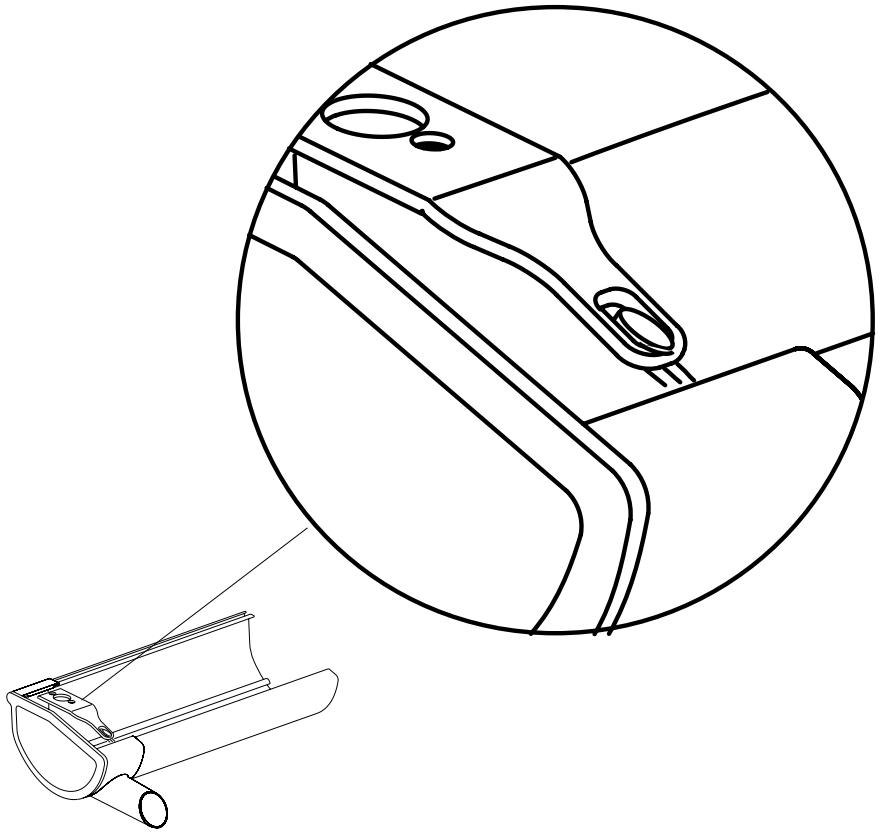


fig. 50

- Illustration of the mounting of the upper safety clip that connects the gutter joints to the terminal tube.

DATA SHEETS

Table 1 - Strenght and effects of wind on BEAUFORT scale							
degree	**wind-resistance class UNI EN 13561**	**wind lead (N/mq)**	**knets**	**Km/h**	**meters/ second**	**envirenmental conditions**	**effects of wind**
0	0	<40	0-1	0-1	<0,3	calm	smoke rises vertically
1	0	<40	1-3	1-5	0,3-1,5	Light air	Direction of wind shown by smoke drift, but not wind vanes.
2	0	<40	4-6	6-11	1,6-3,3	Light breeze	Wind felt on face. Leaves rustle. Ordinary vane moved by wind.
3	0	<40	7-10	12-19	3,4-5,4	Gentle breeze	Leaves and small twigs in constant motion. Wind extends light flag.
4	1	40	11-16	20-28	5,5-7,9	Moderate breeze	Raises dust and loose paper. Small branches are moved.
5	2	70	17-21	29-38	8-10,7	Fresh breeze	Small trees with leaves begin to sway. Crested wavelets form on inland waters.
6	3	110	22-27	39-49	10,8-13,8	Strong breeze	Large branches in motion. Whisteling heard in telephone wires. Umbrellas used with difficulty.
7	>3	>110	28-33	50-61	13,9-17,1	Near gale	Whole trees in motion. Inconvenience felt in walking against wind.
8	>3	>110	34-40	62-74	17,2-20,7	Gale	Breaks twigs off trees. Generally impedes progress. Walking into wind almost impossible.
9	>3	>110	41-47	75-88	20,8-24,4	Strong gale	Slight structural damage occurs, e.g. roofing shingles may become loose or blow off.
10	>3	>110	48-55	89-102	24,5-28,4	Storm	Trees uprooted. Considerable structural damage occurs.
11	>3	>110	56-63	103-117	28,5-32,6	Violent storm	Widespread damage.
12	>3	>110	>64	>118	>32,7	Hurricane	Rare. Severe widespread damage to vegetation and significant structural damage possible.

Table 2 - IMPACT wall fixtures				
stress calculated in daN = 0,98 Kg				
n° of runners		2	3	4
n° of wall fixtures		3	5	6
Width cm	**250**	935		
	300	1121		
	400	1347		
	500	1606		
	500		1466	
	600		1682	
	700		1898	
	800		2114	
	900		2330	
	900			2242
	1000			2458
	1100			2673
	1200			2888
	1300			3129

Table 3 - Minimum slope - Minimum values in cm for single canvas tilted IMPACT																									
Width of the awning (trasmission shaft side)																									
Projection of the awning		**250**	**300**	**350**	**400**	**450**	**500**	**500**	**550**	**600**	**650**	**700**	**750**	**800**	**850**	**900**	**900**	**950**	**1000**	**1050**	**1100**	**1150**	**1200**	**1250**	**1300**
	250	23	28	30	33	35	38	25	28	28	30	30	33	35	38	40	25	25	28	30	33	33	35	38	40
	300	28	33	36	39	42	45	30	33	33	36	36	39	42	45	48	30	30	33	36	39	39	42	45	48
	350	33	39	42	49	53	56	35	39	39	42	42	46	49	53	56	35	35	39	42	46	46	49	53	56
	400	37	44	48	56	60	64	40	44	44	48	48	52	56	60	64	40	40	44	48	52	52	56	60	64
	450	42	50	54	65	68	72	45	50	50	54	54	59	63	68	72	45	45	50	54	59	59	63	69	72
	500	46	55	60	70	75	85	50	55	55	60	60	65	70	75	80	50	50	55	60	65	65	70	75	80
	550	51	61	66	77	83	94	55	61	61	66	66	72	77	83	88	55	55	61	66	72	72	77	83	94
	600	55	66	72	90	96	102	60	66	66	72	72	78	90	96	102	60	60	66	72	78	78	90	96	102
	650	60	72	78	98	104	111	65	72	72	78	78	85	98	105	111	65	65	72	78	85	85	98	104	111
	700	64	77	84	105	112	119	70	77	77	84	84	91	105	112	126	70	70	77	84	91	91	105	112	126
	750	69	83	90	113	120	135	75	83	83	90	90	98	120	128	135	75	75	83	90	98	105	113	120	135
	800	73	88	96	120	128	144	80	88	88	96	96	104	128	136	144	80	80	88	96	104	112	120	128	144
		2 runners						3 runners									4 runners								

Table 4 - Deflection - Minimum values in cm for single canvas flat IMPACT								
Width of the awning (trasmission shaft side)								
Deflection all projections	**250**	**300**	**350**	**400-450-500**	**550-600**	**650-700**	**700-750-800-850-900**	**950-1000-1050**
	11	14	17	11	14	17	14	17
	2 runners			3 runners			4 runners	

Table 3 - Maximum size				
Model	nr. of runners	maximum width	maximum projection	maximum wheel base between runners
Flat	2	500	800	500
	3	900	800	450
	4	1300	800	450
Tilted	2	350	800	350
	3	700	800	400
	4	1050	800	450
		values in cm for the maximum size of single canvases		

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