



Palermo PLUS/ Palermo



Palermo



PalermoPLUS

Installation
manual



THE AMERICAN INSTITUTE OF ARCHITECTS



AMERICAN SOCIETY OF LANDSCAPE ARCHITECTS



Professional Awning Manufacturers Association
PROUD MEMBER



2021 IFAI OUTSTANDING ACHIEVEMENT
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1 INTRODUCTION

This manual for the Palermo PLUS and Palermo was prepared by the manufacturer to provide necessary information to those authorized to install and perform special maintenance of the product. IT IS prohibited to remove, rewrite, or in any way modify the pages of the manual and their content.

Operations must be carried out by personnel with the technical and professional skills required by current applicable national laws or standards.

This manual must be kept complete in all its parts in an easily accessible place.

The manufacturer reserves the right to update products and corresponding manuals without the obligation to update previous manuals.

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1.1 · Symbols Used in the Manual

The WARNING symbols used in the manual are shown below.



INFORMATION AND PRECAUTIONS

Useful advice and instructions to be observed to ensure proper installation and/or maintenance of the awning. Failure to observe these messages may compromise the integrity and/or the resistance of the product.



CAUTION

DANGER TO OPERATOR! Instructions to be evaluated and followed carefully. Failure to comply with these messages may compromise individual safety.

1.2· Personnel Requirements

Personnel assigned to this operation must have technical knowledge of the product obtained either through two years' experience or by means of a suitable technical training course.

1.3· Required Equipment

To ensure proper installation of the awning, and consequently best operation of the finished product, the following equipment is required:

- power screwdriver
- a level
- string
- complete tool set
- equipment for working at heights (scaffolding, ladders, aerial platforms, etc.) which are compliant with current standards of individual safety in the workplace.



CAUTION

All of the screws used on aluminium components must be tightened with a maximum force of 20Nm (=2Kgm). Greater tightening force causes the breakage of fusions and damage to the stainless steel screws. It is advisable to use dynamometric power screwdrivers and wrenches.



CAUTION

Use low-speed power screwdrivers. Screwing in the stainless steel screws at high speed may cause the threads to jam, especially in the case of stainless steel/stainless steel and stainless steel/ aluminium screws and threads.



CAUTION

In the square bar supports with double screw, be sure to evenly screw the two fastening screws of the square bar, distributing the tightening force alternatively on the two screws up to a maximum of 20 Nm. Uneven tightening may cause abnormal tension in the casting, causing it to fail immediately, or lead to subsequent problems caused by external stress on the awning (e.g. gusts of wind).

1.4· Contents of Packaging

The awning is delivered complete with extensible arms, fabric, control (manual or motorized) and any requested optional.

INFORMATION AND PRECAUTIONS

Never move the arm supports from the position in which they are supplied.

2 SAFETY

2.1· General Safety Information

- During all operations described in this manual, make sure that **ONLY** individuals involved in the work are in the work zone (see Chap. 1.2 “Personnel requirements”).
- Do not set objects on the canvas of the awning.
- IT IS prohibited to stand on or hang from the awning. This would create the risk of severe personal injury, as well as damaging the awning.
- Wear individual safety gear and clothing as required by current standards on workplace safety.

CAUTION

Installation, adjustment, and special maintenance of the awning must be carried out only by specialized, skilled technical personnel.

CAUTION

IT IS necessary to ensure a distance of at least 500 mm between the end of the fully-opened awning (outermost part) and any fixed obstacle (wall, terrace, etc.).

CAUTION

IT IS prohibited to install or place ladders or other objects near the awning, as this would reduce the space required for installation.

CAUTION

Never loosen the awning more than the tension in the arms as there is the risk that the awning return under the tube and be ruined.

2.2· Requirements for Working in Safety

- Installation must be performed in full compliance with standards set forth by Presidential Decree 164/56 and Legislative Decree 494/96 for all that which concerns individual safety.
- Before use, check that all temporary structures (scaffolding, ladders, etc.) and all individual safety gear (harnesses, belts, etc.) are compliant with standards and in good condition.
- Always use suitable individual protection gear.
- If there is more than one installation technician, their work must be coordinated.
- Operators must work in compliance with the safety instructions given to them.
- If the awning is to be installed above ground level, the area underneath the awning must be marked off and guarded so that no one can get underneath the hanging load.
- Firmly tie the ropes or straps around the arm supports so that it does not slip and risk falling.

2.3-Working Environment

- Installation and special maintenance must be carried out in a place that is sufficiently illuminated (based on specific standards) by either natural or artificial lighting. The operator must have a clear view of the work to be performed, and he must also prevent third persons from approaching the work area around the awning.

3 TECHNICAL TABLES FOR INSTALLATION

3.1 - Table of Minimum Palermo PLUS and Palermo dimensions

i INFORMATION AND PRECAUTIONS

The measurements in the following tables are expressed in cm.

PROTRUSION	MINIMUM DIMENSIONS (cm)
ARM	1 PAIR OF ARMS
160	191
185	216
210	241
235	266
260	291
285	316
310	341
335	366
360	391

i INFORMATION AND PRECAUTIONS

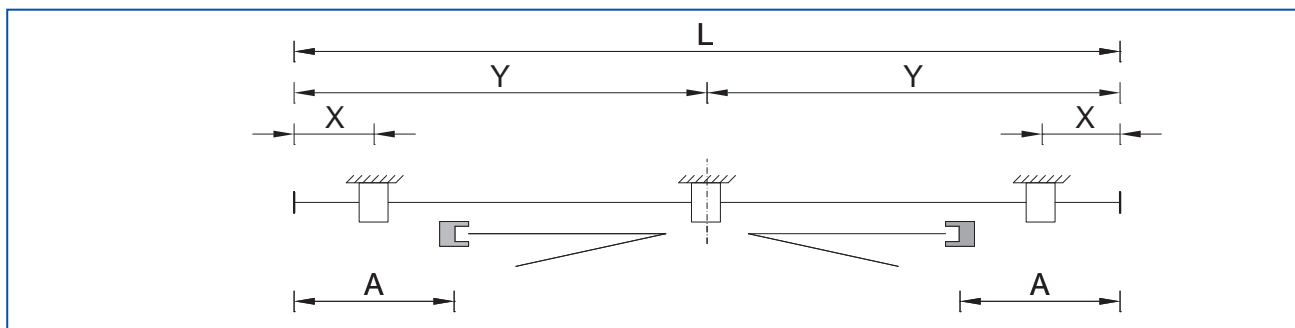
It is advisable always to use an even number of extensible arms.

3.2- Table of dimensions of awning/no. of arm supports, square bar support and balnce support. BQ

***i* INFORMATION AND PRECAUTIONS**

The measurements in the following tables are expressed in cm.

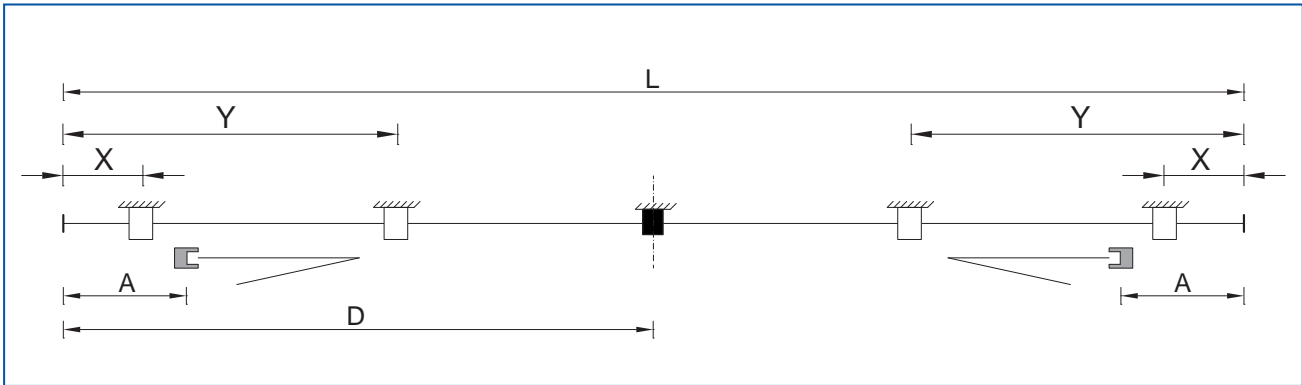
L.300/400



300 (2 arms)			
	X	Y	A
150	30	L/2	40
175	30	L/2	40
200	17,5	L/2	30
225	9	L/2	17,5

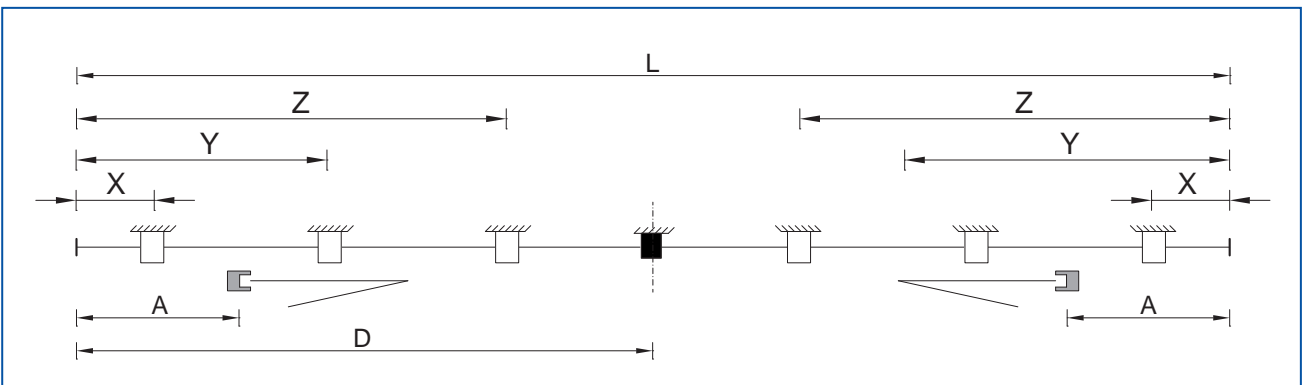
400 (2 arms)			
	X	Y	A
150	30	L/2	50
175	30	L/2	50
200	30	L/2	50
225	30	L/2	50
250	30	L/2	50
275	30	L/2	43,75
300	12,5	L/2	31,25
325	12,5	L/2	21,25

L.500



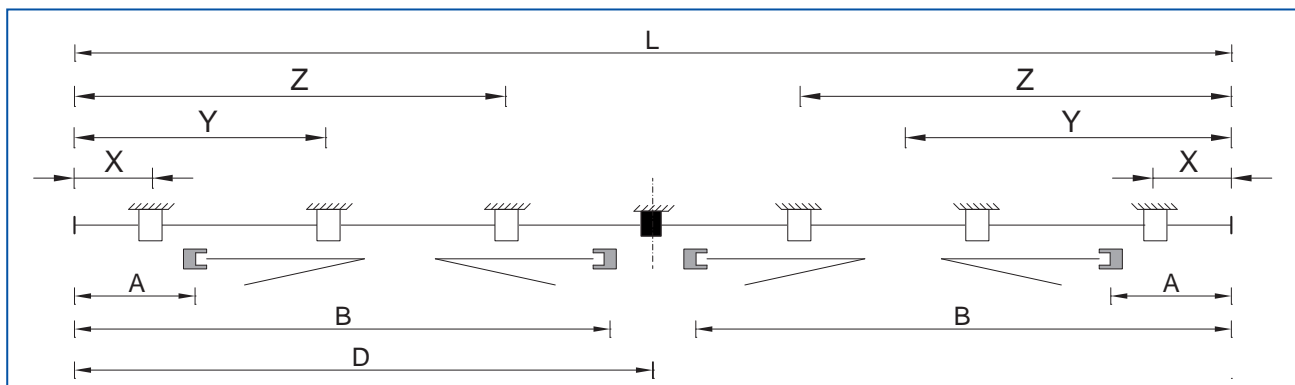
500 (2 arms)				
	X	Y	A	D
150	30	155	60	L/2
175	30	155	60	L/2
200	30	155	60	L/2
225	30	155	60	L/2
250	30	155	60	L/2
275	30	155	60	L/2
300	30	155	60	L/2
325	30	155	60	L/2
350	30	155	50	L/2
400	15	155	25	L/2

L.600

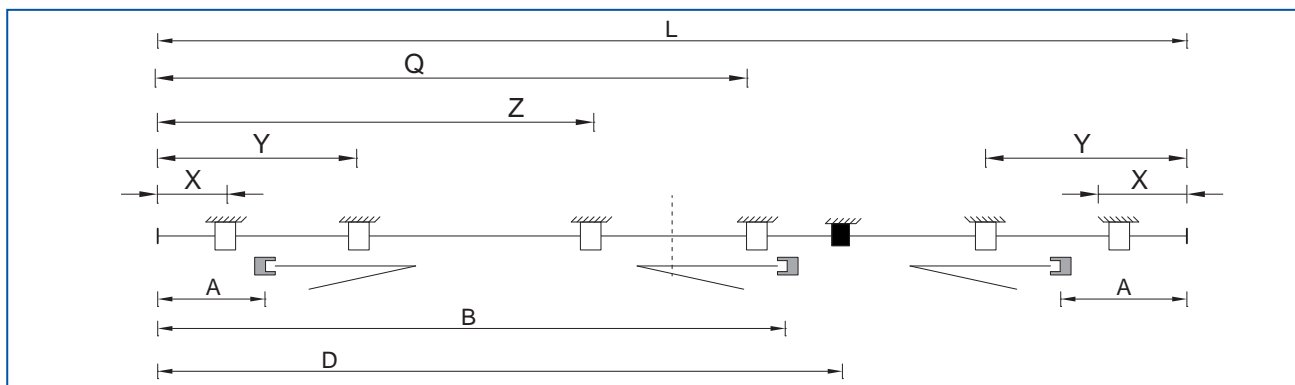


600 (2 arms)					
	X	Y	Z	A	D
150	25	185		70	L/2
175	25	185		70	L/2
200	25	185		70	L/2
225	25	185		70	L/2
250	25	185		70	L/2
275	25	115	225	70	L/2
300	25	115	225	70	L/2
325	25	115	225	70	L/2
350	25	115	225	70	L/2
400	25	115	225	70	L/2

L.700 (4 ARMS)

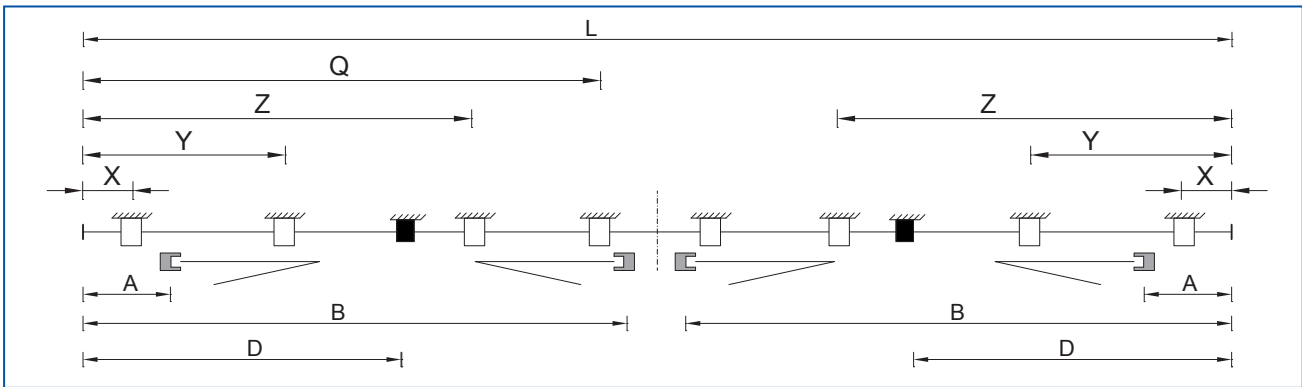


L.700 (3 ARMS)

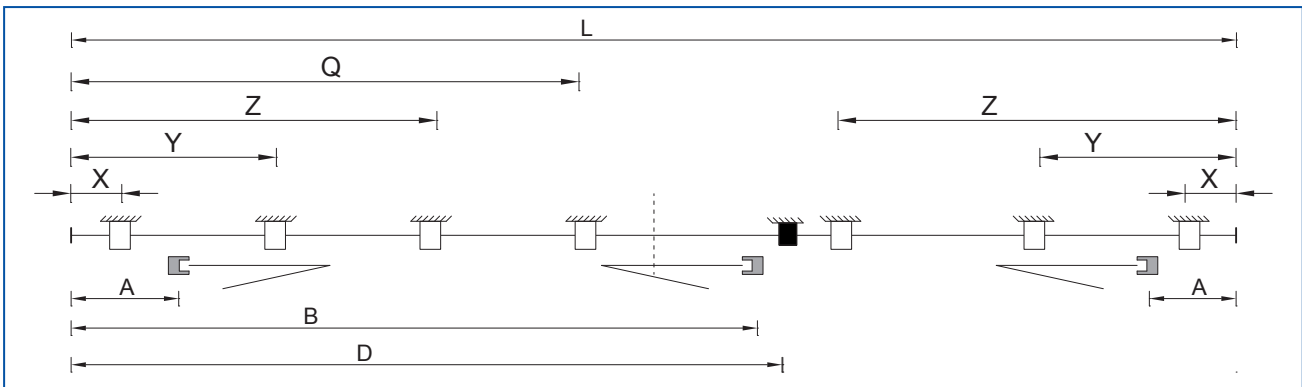


700 (4 arms)							
	X	Y	Z	Q	A	B	D
150	25	205			70	267,5	L/2
175	25	205			70	280	L/2
200	25	205			70	305	L/2
225	25	205			70	330	L/2
250	25	205			45	330	L/2
275	11,5	95	225		20	330	L/2
700 (3 arms)							
300	17	100,5	255		45	382	400
325	17	100,5	255		45	407	425
350	17	100,5	255		45	432	455
400	6,85	100,5	255	432	17	452	465

L.800 (4 ARMS)

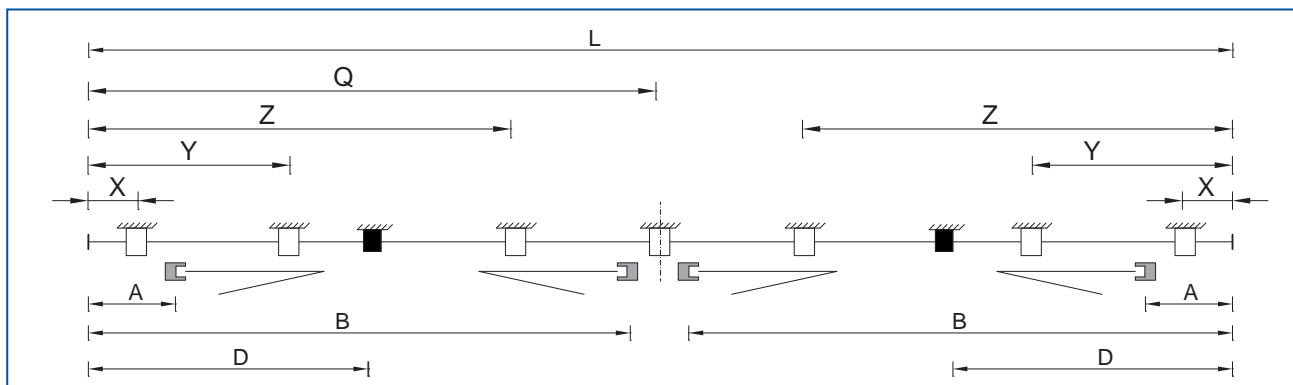


L.800 (3 ARMS)

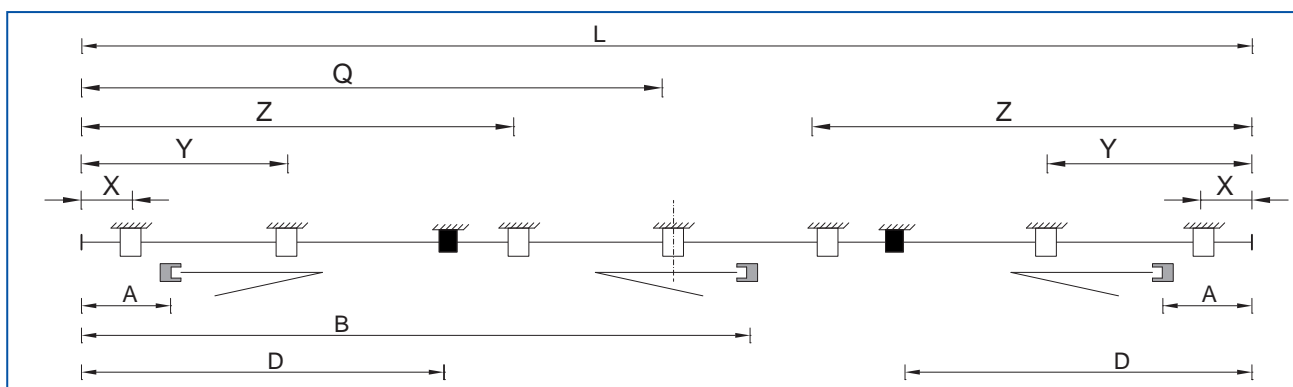


800 (4 arms)							
	X	Y	Z	Q	A	B	D
150	30	178	326		70	305	L/2
175	30	178	326		70	305	
200	30	178	326		70	305	
225	30	178	346		70	330	
250	30	178	326		70	355	
275	30	144	286,5	393	70	380	407
300	30	144	286,5	393	45	380	407
325	11,5	144	286,5	393	20	380	407
800 (3 arms)							
350	29	146	286,5	393	45	432,5	477,5
400	29	146	286,5	393	45	483	495

L.900 (4 ARMS)

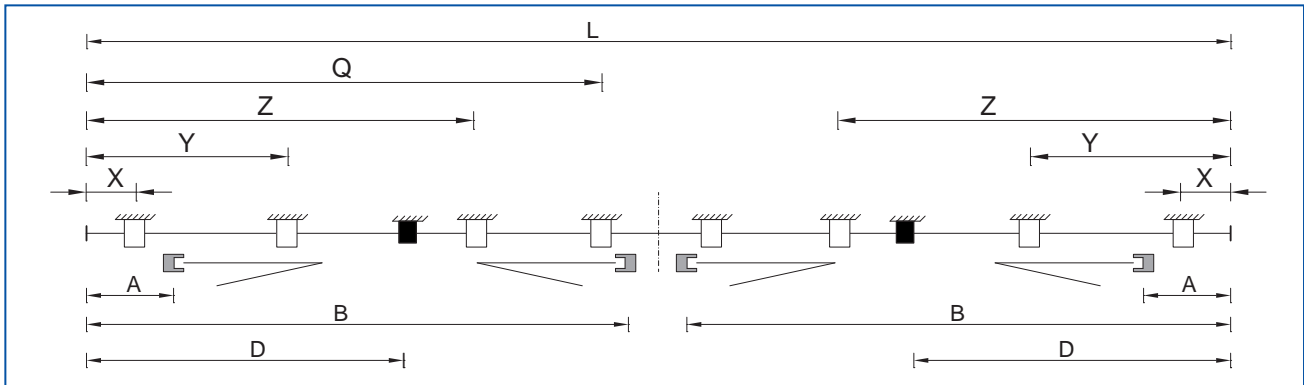


L.900 (3 ARMS)



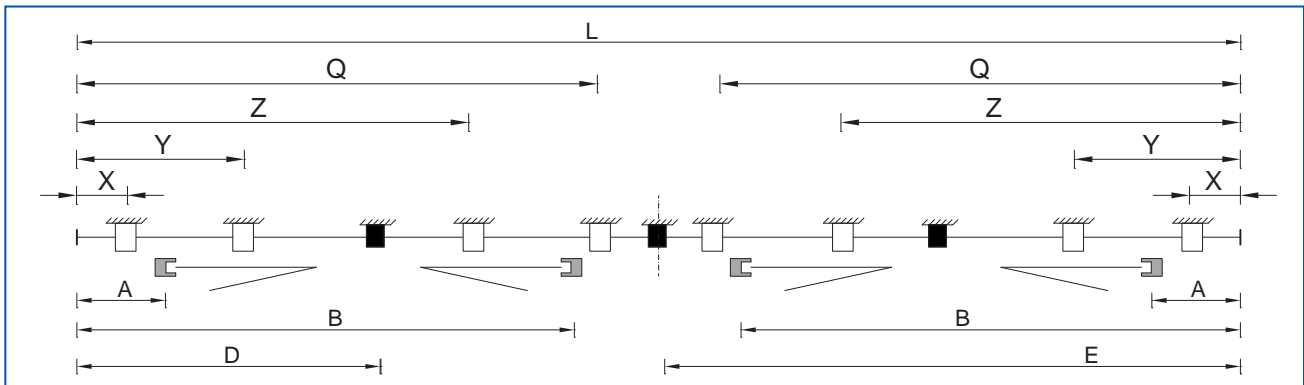
900 (4 arms)							
	X	Y	Z	Q	A	B	D
150	45	207	367,5		70	330	342,5
175	45	207	367,5		70	330	342,5
200	45	207	367,5		70	330	342,5
225	45	207	367,5		70	330	342,5
250	45	207	382,5		70	355	367,5
275	45	180,5	345,5	450	70	390,5	230
300	45	180,5	345,5	450	70	415,5	242,5
325	30	180,5	345,5	450	57,5	428	242,5
900 (3 arms)							
400	45	180	315	450	60	510	285

L.1000



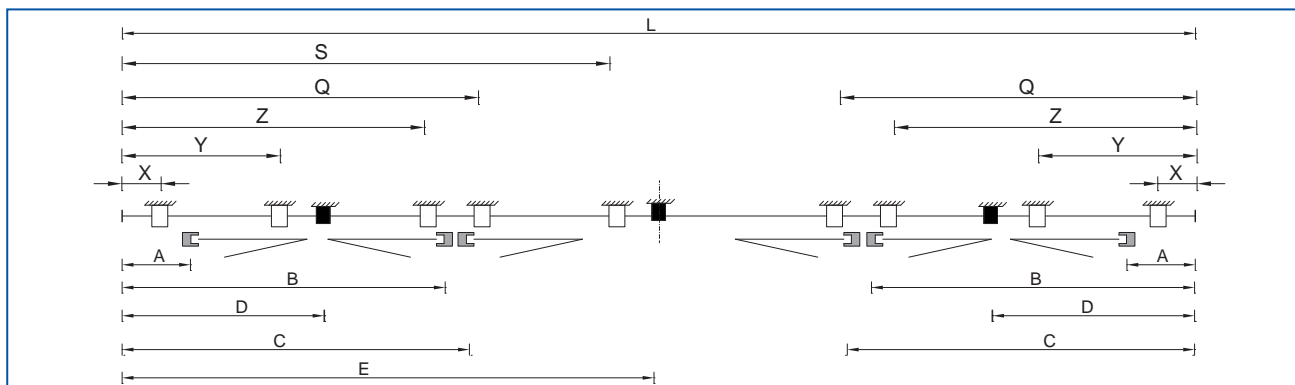
1000 (4 arms)							
	X	Y	Z	Q	A	B	D
150	45	227	409		70	367,5	380
175	45	227	409		70	367,5	380
200	45	227	409		70	367,5	380
225	45	227	409		70	367,5	380
250	45	227	409		70	367,5	380
275	45	154	325	435	70	380	392,5
300	45	154	325	435	70	405	417,5
325	45	154	325	435	70	455	267,5
350	45	154	325	447	70	467,5	267,5
400	22,5	154	325	460	35	480	257,5

L.1100

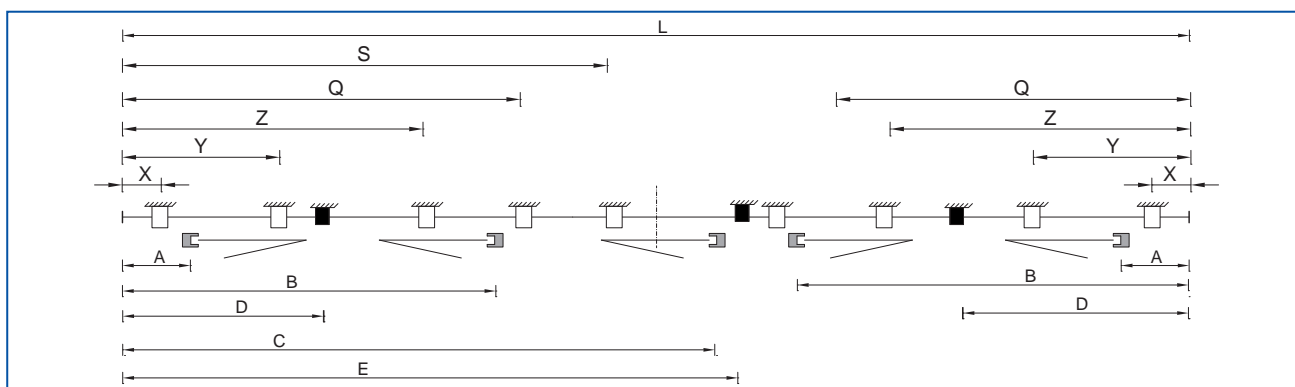


1100 (4 arms)								
	X	Y	Z	Q	A	B	D	E
150	45	227	421,5		70	392,5	405	
175	45	227	421,5		70	392,5	405	
200	45	227	421,5		70	392,5	405	
225	45	227	421,5		70	392,5	405	
250	45	227	421,5		70	392,5	405	
275	45	155	325	435	70	392,5	405	
300	45	155	325	435	70	405	417,5	
325	45	155	350	460	70	430	442,5	
350	45	155	350	485	70	467,5	268,5	L/2
400	45	155	375	525	57,5	505	281	L/2

L.1200 (6 ARMS)



L.1200 (5 ARMS)



1200 (6 arms)										
	X	Y	Z	Q	S	A	B	D	D	E
150	45	204,5	362	520,5		70	330	470	342,5	1/2
175	45	204,5	362	520,5		70	330	470	342,5	1/2
200	45	204,5	362	520,5		70	330	470	342,5	1/2
225	45	204,5	362	520,5		70	330	463,5	342,5	1/2
250	45	204,5	382	520,5		70	355	451	367,5	1/2
275	45	204,5	362	461	580	70	388,5	438,5	229,5	1/2
300	20	204,5	362	461	580	45	388,5	426,5	217	1/2
325	10	188,5	362	461	580	20	388,5	413,5	204,5	1/2
1200 (5 arms)										
350	45	198,5	352,5	490	600	70	464,5	661,5	267	696
400	17,5	198,5	352,5	490	600	30	474,5	669,5	252	708

! CAUTION

THE ABOVE LISTED TABLES ARE PURELY INDICATIVE. THE INFORMATION IS UP TO DATE ACCORDING TO THE AVAILABLE KNOWLEDGE. RETRACTABLEAWNINGS.COM THESE TABLES DO NOT PROVIDE ANY GUARANTEE REGARDING ACCURACY, RELIABILITY, AND COMPLETENESS OF THE INFORMATION CONTAINED HEREIN. IT IS THE USER'S RESPONSIBILITY TO ENSURE THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION.

3.3 · Table of Loads on Awning Fastening Plugs, Based on Type of Attachment

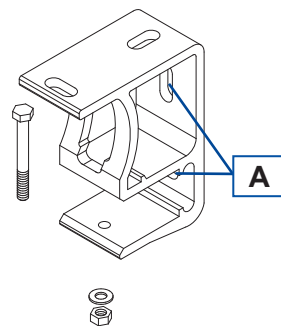
i INFORMATION AND PRECAUTIONS

The calculations of the plugs were made taking into account Class 2 wind resistance as per standard EN 13561.

i INFORMATION AND PRECAUTIONS

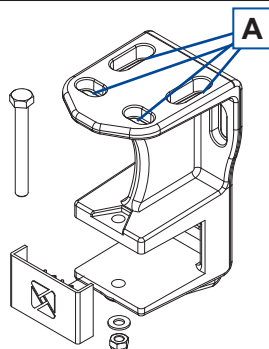
The wall plug calculations for Palermo PLUS and Palermo have been performed with the extruded square wall/ceiling bracket, taking into consideration that holes (A) are used for wall installation.

WALL INSTALLATION



WALL INSTALLATION OF PALERMO PLUS AND PLERMO		WIDTH (m)							
Extraction load on anchoring devices (KN)		2.5	3	3.5	4	4.5	5	5.5	6
PROTRUSION (m)	1,35	1.54	1.80	2.07	2.33	2.60	2.86	3.12	3.39
	1,6	2.14	2.50	2.87	3.23	3.60	3.96	4.32	4.69
	1.85	2.80	3.27	3.75	4.23	4.71	5.19	5.67	6.15
	2,1	3.59	4.20	4.81	5.42	6.03	6.64	7.26	7.87
	2,35		5.19	5.95	6.71	7.47	8.23	8.99	9.74
	2,6		6.26	7.19	8.11	9.03	9.95	10.87	11.80
	2,85			8.56	9.66	10.76	11.86	12.96	14.06
	3,10			10.10	11.40	12.70	13.99	15.29	16.59
	3,35				13.61	15.12	16.62	18.13	19.64
	3,60				15.63	17.36	19.10	20.83	22.57

CEILING INSTALLATION



i INFORMATION AND PRECAUTIONS

The ceiling plug calculations for Palermo PLUS and Palermo have been performed with the square wall/ceiling bracket shown in the figure, taking into consideration that holes (A) are used for ceiling installation.

i INFORMATION AND PRECAUTIONS

We recommend using all four of the holes (A) available on the bracket. If this is not possible, use two diagonal holes.

CEILING INSTALLATION OF PALERMO PLUS AND PLERMO									
Extraction load on anchoring devices (KN)		WIDTH (m)							
		2.5	3	3.5	4	4.5	5	5.5	6
PROTRUSION (m)	1,35	2.46	2.88	3.30	3.73	4.15	4.58	5.00	5.43
	1,6	3.43	4.01	4.60	5.18	5.77	6.36	6.94	7.53
	1.85	4.49	5.26	6.04	6.81	7.58	8.36	9.13	9.90
	2,1	5.77	6.76	7.75	8.73	9.72	10.71	11.70	12.68
	2,35		8.37	9.60	10.83	12.05	13.28	14.51	15.73
	2,6		10.12	11.61	13.10	14.60	16.09	17.58	19.07
	2,85			13.84	15.63	17.41	19.19	20.98	22.76
	3,10			16.36	18.46	20.57	22.67	24.77	26.87
	3,35				22.05	24.49	26.94	29.39	31.83
	3,60				25.34	28.16	30.97	33.79	36.61

! CAUTION

All values were calculated considering two supports (presuming no contribution from centre support).

The value in the table is in KN and expresses the extraction load of the plug that is under the greatest stress. These values are required for the selection of the most suitable anchoring, based on the type of material upon which the awning will be installed. Choose the anchoring by referring to the recommended load values in the Hilti General Catalogue.

Example: awning with ceiling attachment

- awning dimensions: L 4.0 x TH 2.6 - load on plug: 13.10 kN - base material: non-cracked concrete C25. Suggested plug: Hilti HST M10 or HST M12 (see technical characteristics of plugs in Hilti General Catalogue).

! CAUTION

The selection of the most suitable fastening element depends on the type of base material and on its physical state. It is the responsibility of the installer to check the state of the base material before installing the awning. The installer is not obliged to use Hilti anchoring devices.

3.4- Table of Suggested Anchoring Devices




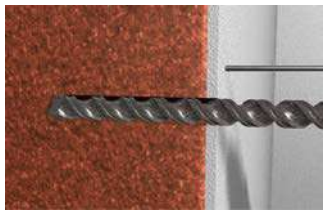

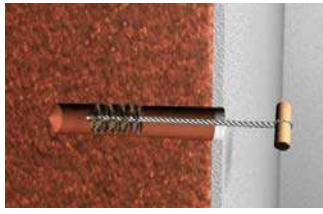






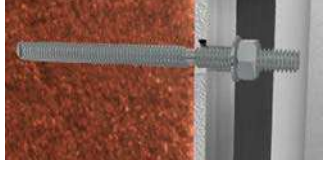
3.4.1 -Types of Anchoring Devices Based on Base Material

Extraction load on anchoring devices (KN)		
Hilti HST		CONCRETE CRACKED CONCRETE HARD NATURAL STONE
Hilti HSA		CONCRETE HARD NATURAL STONE
Hilti HIT-HY 150 with HAS		CONCRETE
Hilti HIT-RE 500 with HAS		CONCRETE HARD NATURAL STONE SOLID BRICK WOOD
Hilti HIT-HY 50		BETON GAS SOLID BRICK WOOD
Hilti HIT-HY 20		PERFORATED BRICK

i INFORMATION AND PRECAUTIONS

For corrosive environments, we suggest using stainless steel anchoring devices. For additional information, contact Hilti Italia S.p.A. technical service. (e-mail:tecnicisti@hilti.com)

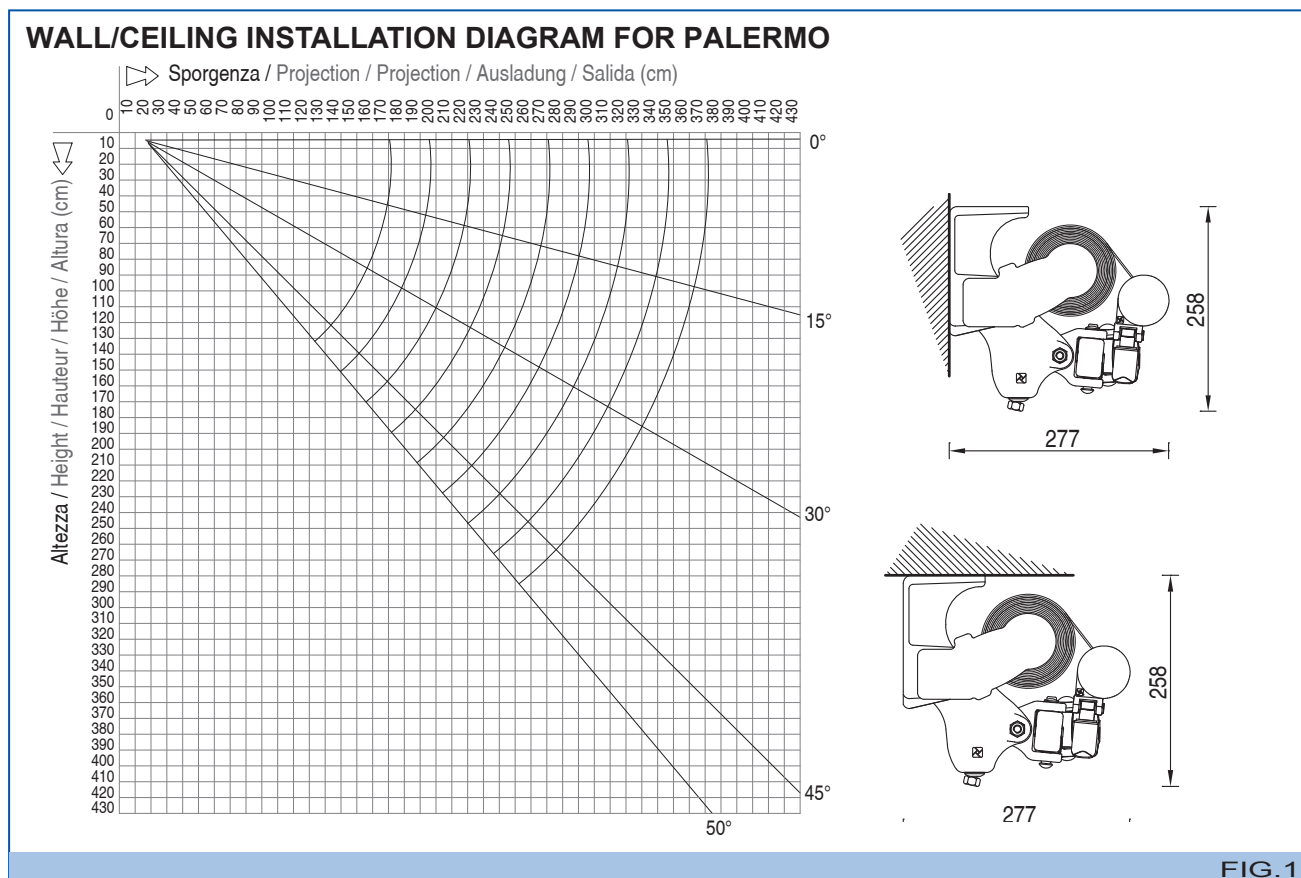
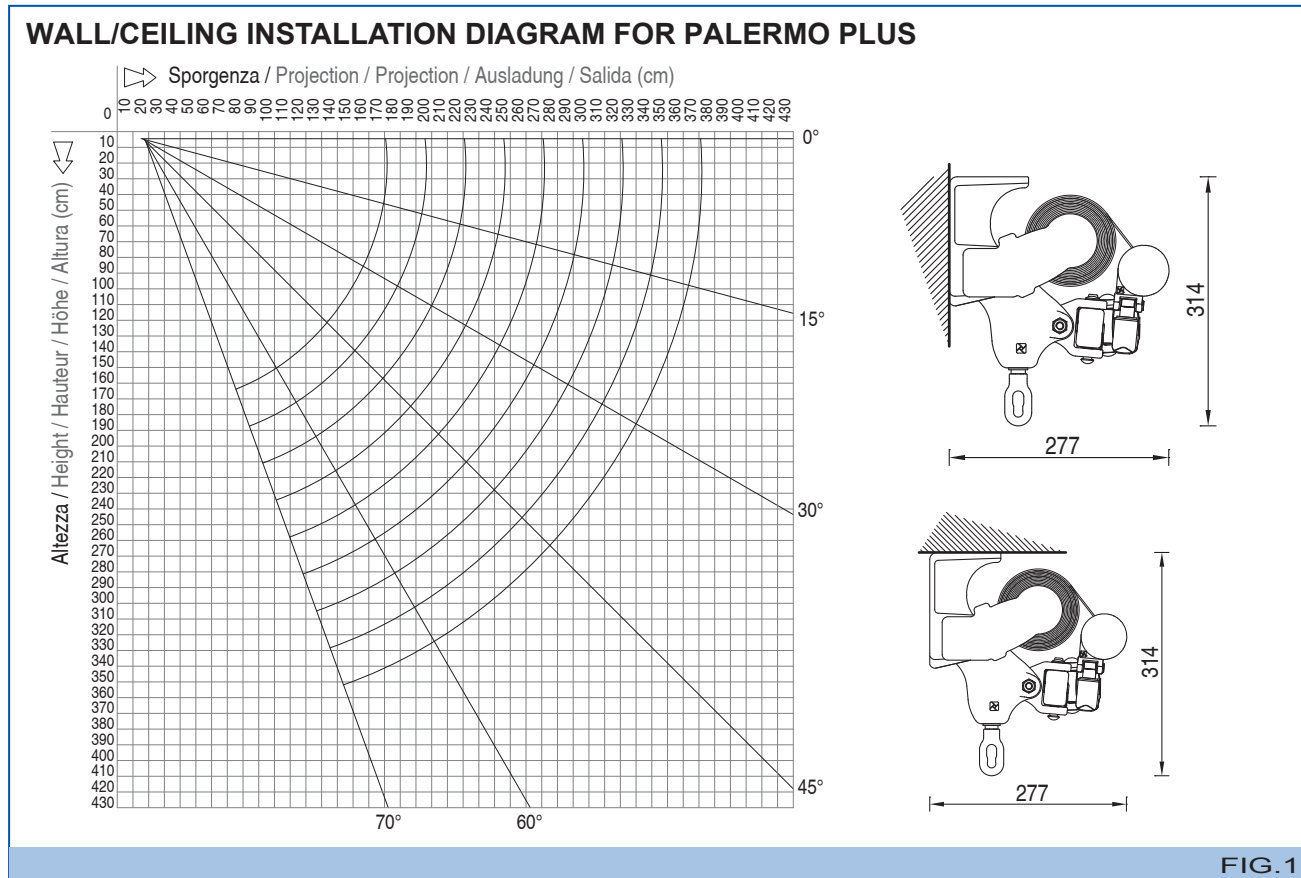
3.4.2 • Sequence for Fastening of Anchoring Devices

MECHANICAL ANCHORING DEVICE		CHEMICAL ANCHORING DEVICE	
	1° Make a hole with a drill bit that is suitable for the anchoring device		1° Make a hole with a drill bit that is suitable for the anchoring device
	2° Pay attention to how deep you make the hole		2° Pay attention to how deep you make the hole
	3° Remove dust and debris from the hole (preferably using compressed air)		3° Remove dust and debris using a brush
	4° Install the anchoring device		4° Remove residual dust with compressed air
	5° Tighten until achieving recommended tightening torque (see Hilti General Catalogue)		5° Inject the chemical adhesive
	6° Final configuration		6° Insert and settle the anchoring device. Comply with the setting time required before placing the plate (see product cartridge)
			7° After the time "T cure" has elapsed, place the plate and tighten until achieving recommended tightening torque (see Hilti General Catalogue)

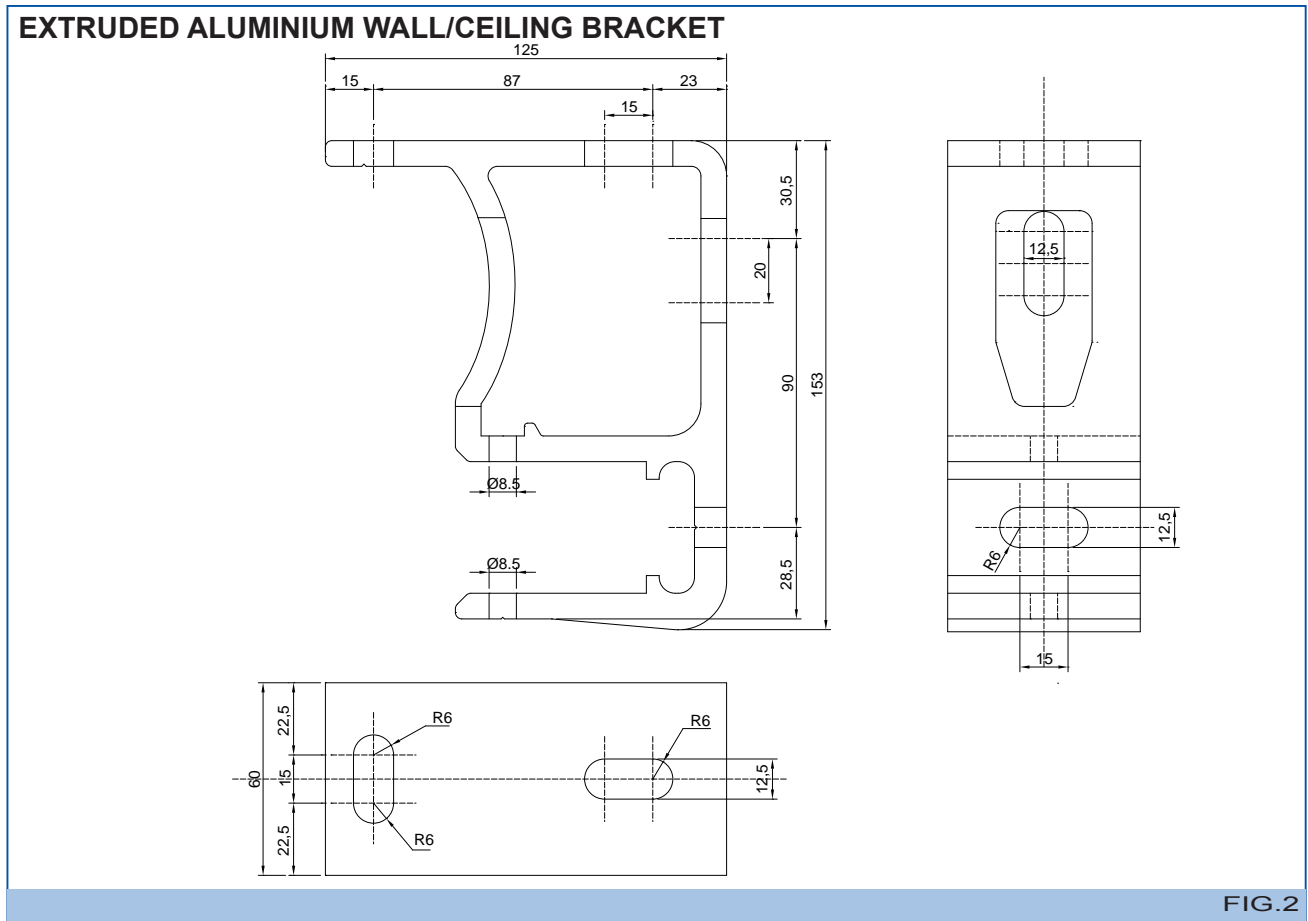
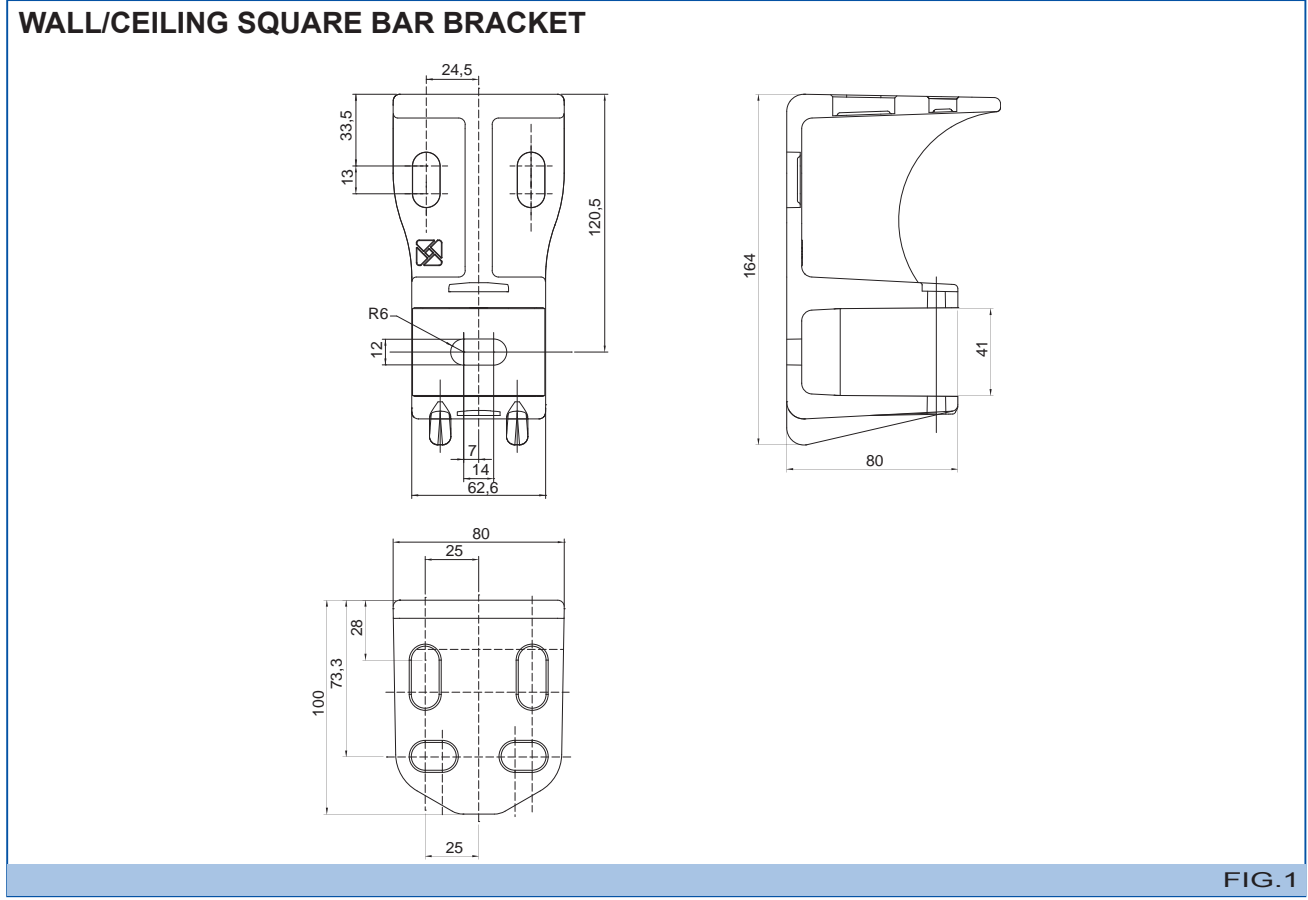
! CAUTION

For proper installation of the anchoring devices, refer to the Hilti General Catalogue

3.5- Diagrams of Covering and Footprints



3.6 Support Brackets



4 INSTALLATION OF MANUAL AWNING

The instructions below refer to **wall mounting**; ceiling mounting is the same. If any optionals are provided, **first read** Chapter 6 "Optionals"

CAUTION

Ensure a minimum space of 500 mm between the open awning and any fixed obstacle. The awning must be installed at a minimum height of 2500 mm. If this is not possible, for awnings equipped with automations it is obligatory to install an acoustic warning device.

INFORMATION AND PRECAUTIONS

Use the most suitable plugs for the type of wall where the awning is to be installed.

INFORMATION AND PRECAUTIONS

For **CEILING INSTALLATION**, DO NOT FASTEN THE BRACKETS TO THE BLOCKS. The awning may fall with the risk of serious injury to individuals and damage to the product.

INFORMATION AND PRECAUTIONS

The procedure described below refers to the model of awning with **TWO** extensible arms. The operator must take the necessary measures for the installation of models with more than two arms (see the tables in Chap. 3.2).

4.1 - Fastening Wall Brackets

INFORMATION AND PRECAUTIONS

The instructions that follow are of a general nature and must therefore be adapted to the model of awning being assembled.

- 1° Before starting installation, take note of the following information, which is indispensable to find the right position for fastening the brackets:
 - awning dimensions (see Chap 3.1 and Chap. 3.5)
 - dimensions of the brackets (see Chap. 3.6)
 - number of arm supports (see Chap. 3.2)
 - side of awning where control is located;
 - dimensions of the wall/ceiling where the awning is to be installed.

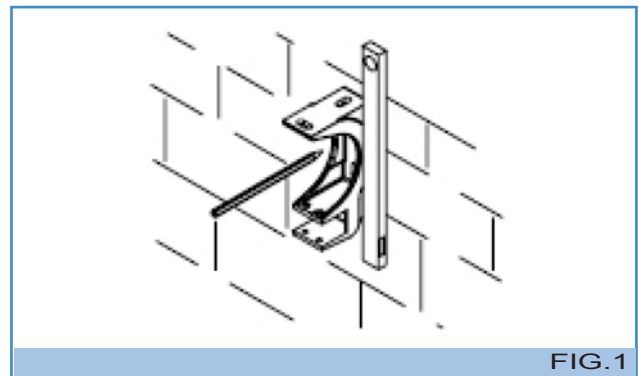
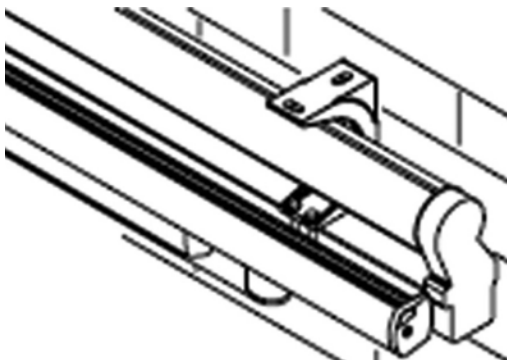


FIG. 1

- (For the support and bracket positions, see Chapter 3.2).
- 2° Using a string and a level, mark the position of the holes to be made on the wall (see Fig. 1).

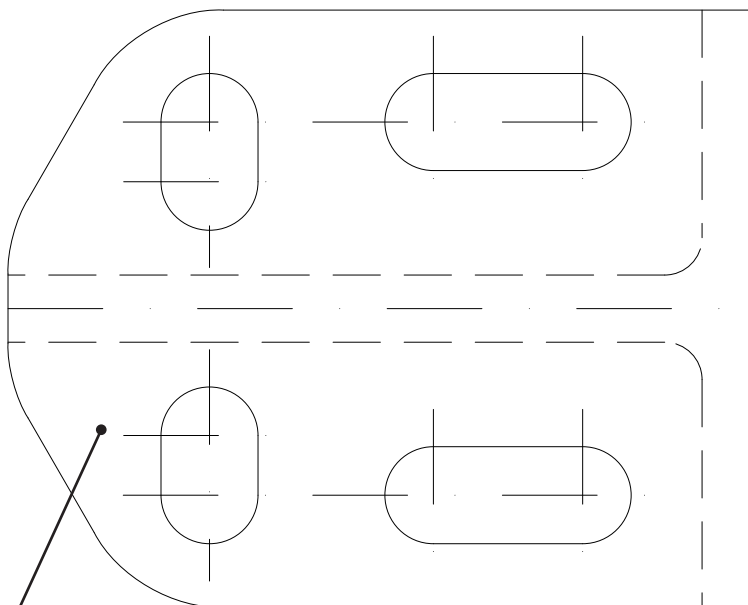
INFORMATION AND PRECAUTIONS

To make installation easier, you can print pages 21, 22, 23, and 24 in A4 format and use them as templates to find the best positions for the holes.

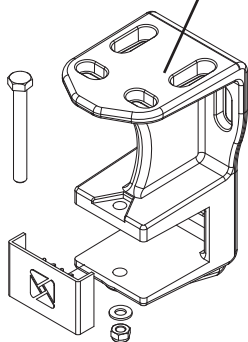
CAUTION

TO AVOID GROSS ERRORS, MAKE SURE THE PRINT OUT SCALE IS 1:1, CHECKING THE MEASURE INDICATED ON THE PAPER WITH A RULER OR CALLIPER IN RELATION TO THE DIMENSIONS INDICATED ON PAGE 19.

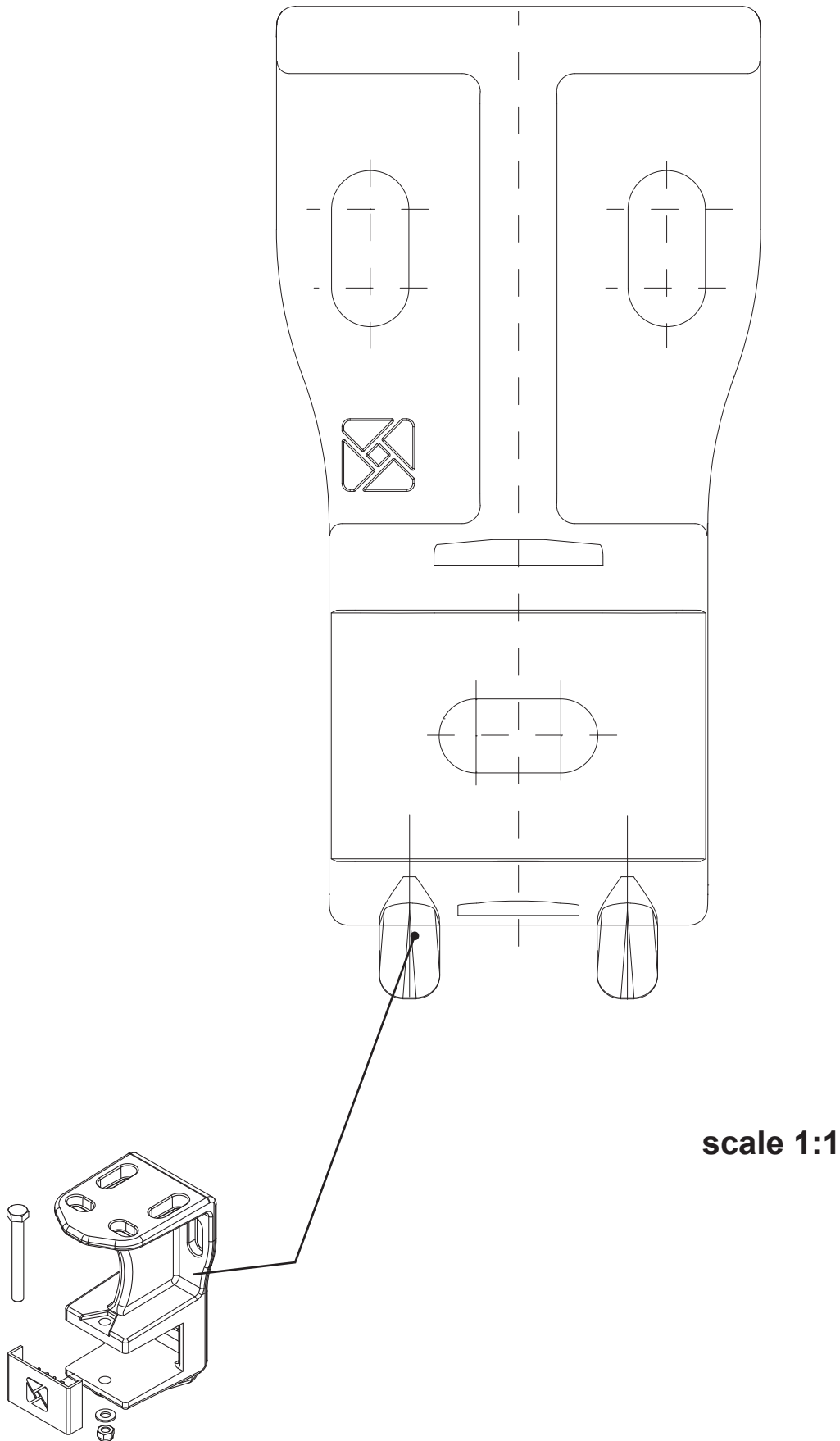
WALL/CEILING SQUARE BAR BRACKET



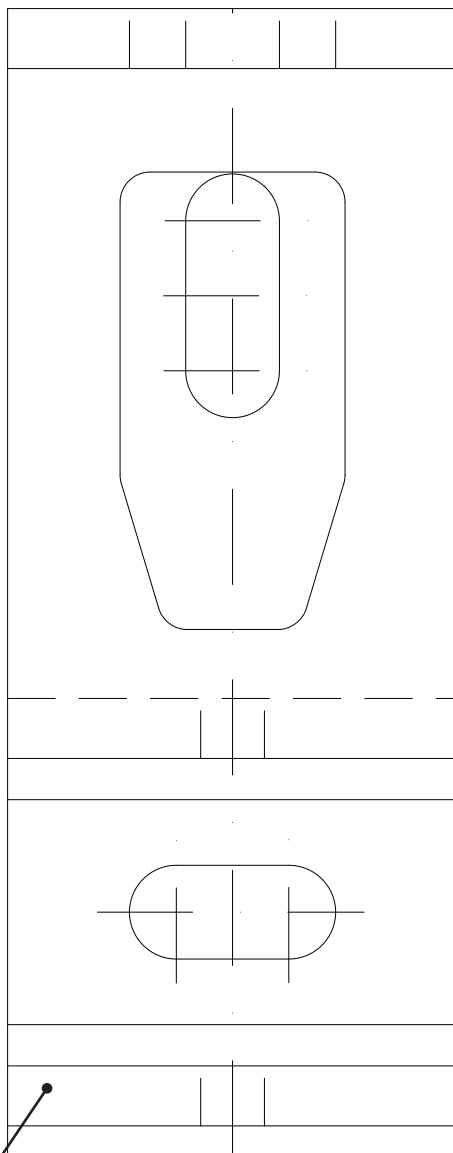
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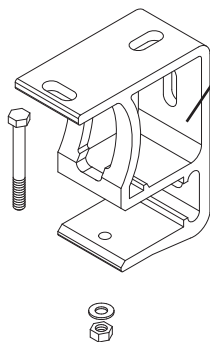
WALL/CEILING SQUARE BAR BRACKET



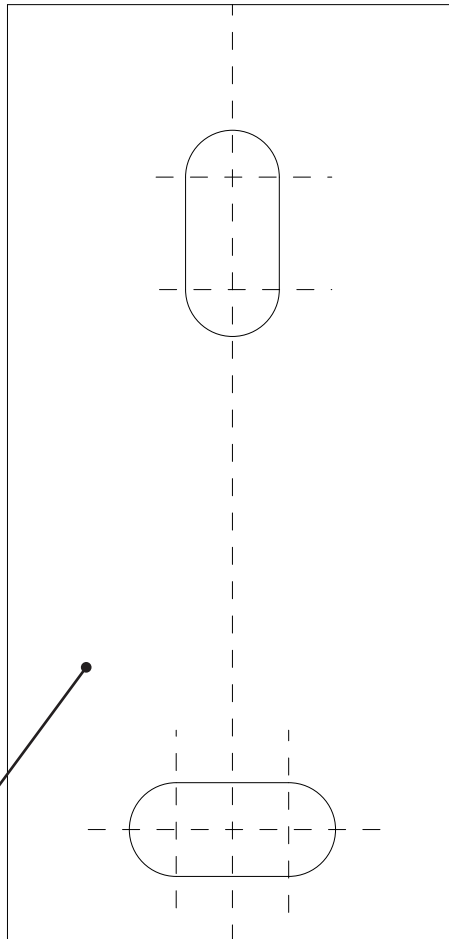
EXTRUDED WALL/CEILING SQUARE BAR BRACKET



scale 1:1



EXTRUDED WALL/CEILING SQUARE BAR BRACKET



scale 1:1

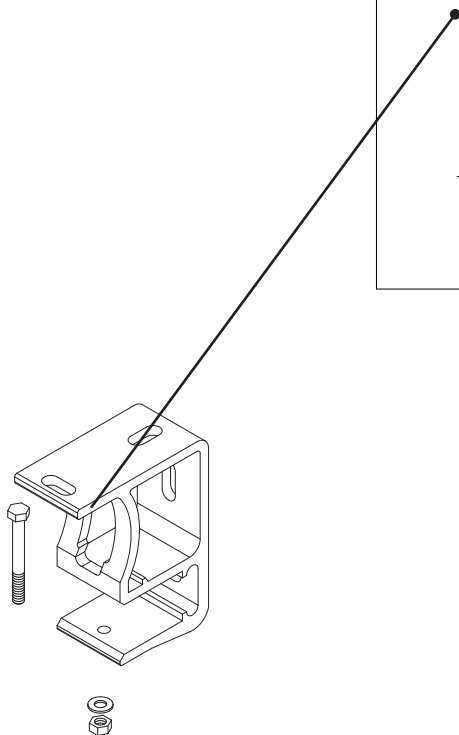




FIG.2

3° Make the holes in the wall using suitable drill based on the type of wall and type of screw to be used. See the Table of Loads, Chap. 3.3.

4.2· Wall Installation

i **INFORMATION AND PRECAUTIONS**
 The instructions that follow are of a general nature and must therefore be adapted to the model of awning being assembled.

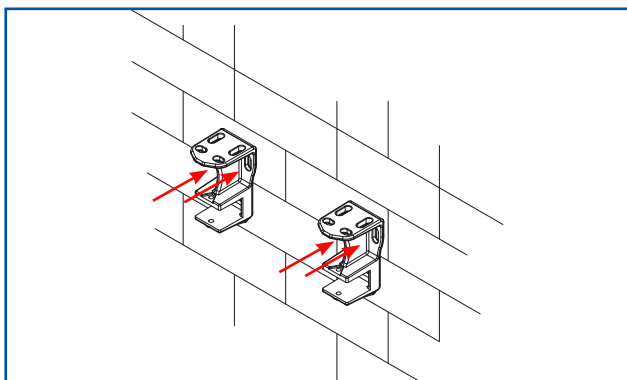


FIG.1

1° Fix the brackets to the wall and insert the square bar (including the awning) on the square bar supports.



FIG.2

2° Centre the awning on the brackets referring to the table "Awning Dimensions/no. of arms supports" in Chap. 3.2.

i **INFORMATION AND PRECAUTIONS**
 If the wall is off-square, it may difficult to install the awning on the support brackets. It is therefore advisable to check the alignment of the brackets and to provide inserts to ensure proper alignment for good installation. Use a string to check alignment.

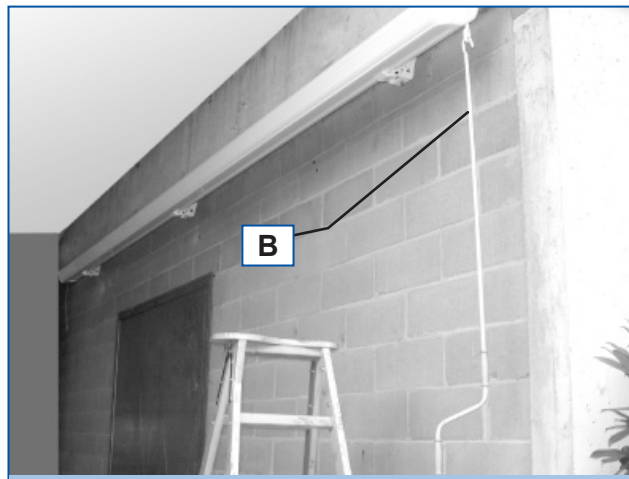


FIG.3

3° Fasten the manoeuvre rod (B) to the winch.



FIG. 4

For ceiling-mounted awnings, follow the same instructions as for wall installation.

4.3· Adjustment of Awning Inclination

For this procedure, one worker will need to work on the brackets, and the other, only after opening the awning, will guide the terminal so as to raise or lower the awning easily.

! CAUTION
 Make sure that when opening/closing the awning, there are no individuals within its range of action who are not involved in the work.

4.3.1 - Adjustment of Awning Palermo PLUS Inclination

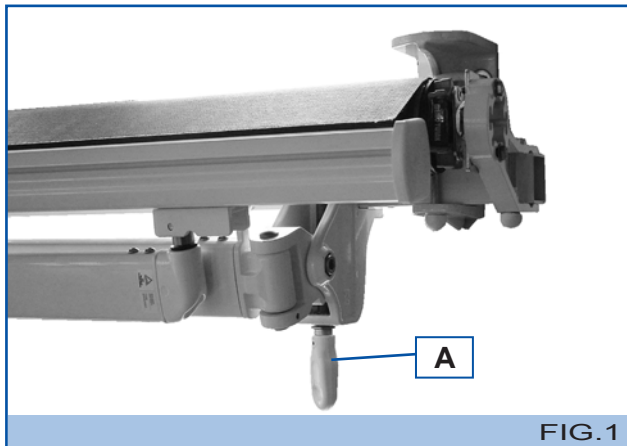


FIG. 1

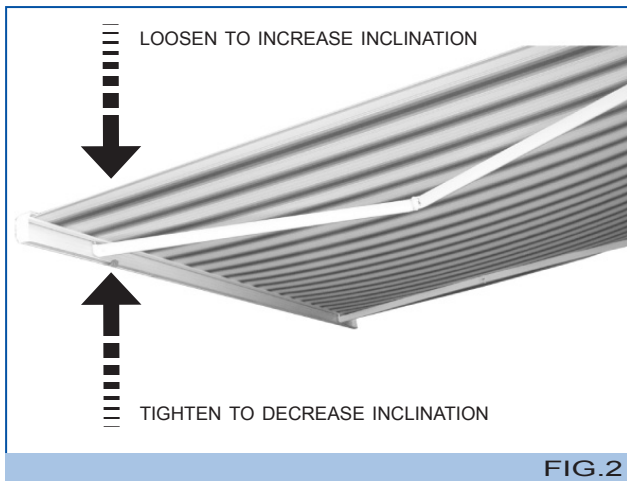


FIG. 2

1° Adjust the awning inclination using the rod with the plastic ring (Fig. 1 - A -) in both arm supports.

! CAUTION

WHEN ADJUSTING THE SLOPE, START WITH ONE SIDE MAKING SURE THAT IT DOES NOT EXCEED 10° AT THE TIME, THEN ADJUST THE OTHER SIDE BRINGING THE FRONT BAR IN THE HORIZONTAL POSITION, REPEAT THE OPERATION IF NECESSARY.

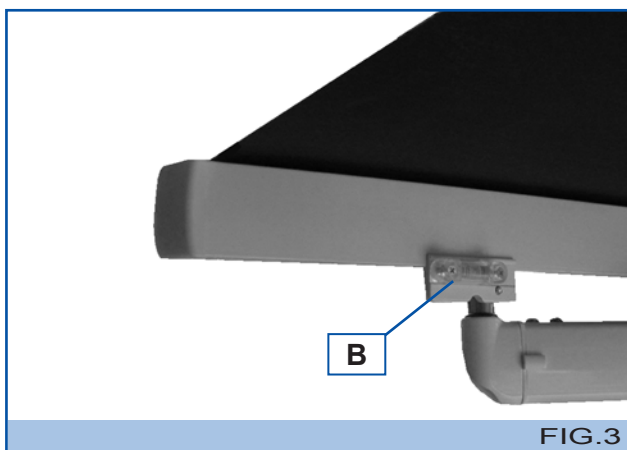


FIG. 3

2° Using the level (B), positioned near the tip of the

arm, check that the terminal is perfectly horizontal. If not, adjust the rod with the plastic ring in the support that corresponds to the arm that is not level, following the procedure described previously.

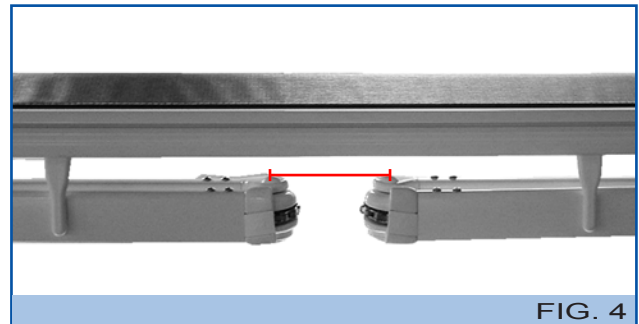


FIG. 4

3° Check that the elbows of the extensible arms are parallel.

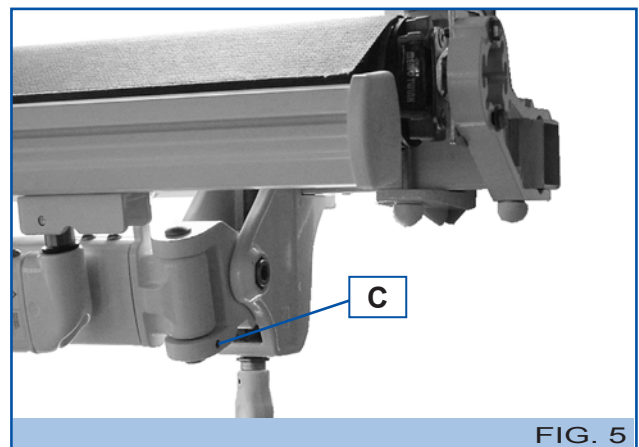


FIG. 5

4° If not, tighten the grub screw (C) to raise the elbow of the arm, and unscrew it to lower.

5° Repeat the same steps on the other end of the awning.

i INFORMATION AND PRECAUTIONS

Arm alignment can also be performed with the awning closed as the grub screws are located externally to the support arms.

4.3.2 - Adjustment of Awning Palermo PLUS Inclination

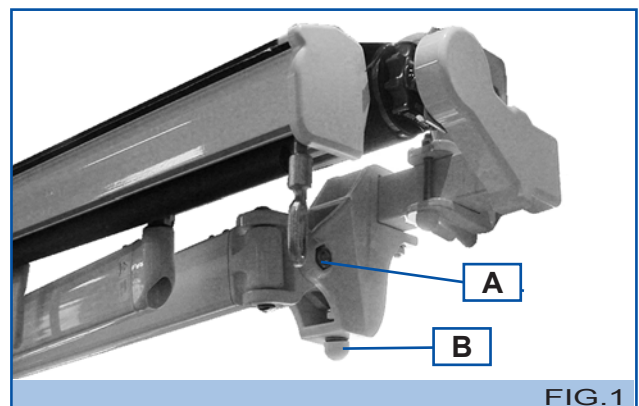


FIG. 1

1° Loosen the screw (A) and adjust the awning inclination using the screw (B) on both support arms [tighten to reduce the inclination and loosen to increase inclination (see Fig. 2 Chap. 4.3.1)].



FIG.2

- 2° Using a level, check that the terminal is horizontal. If not, adjust the support screw for the arm that is not level using the procedure indicated above.
- 3° Check that the elbows of the extensible arms are parallel (see Fig. 4, Chap. 4.3.1).

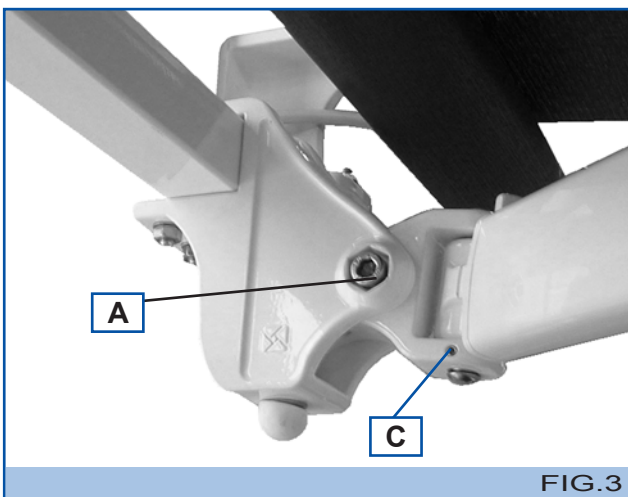


FIG.3

- 4° If not, tighten the grub screw (C) to raise the elbow of the arm, and unscrew it to lower.
- 5° Tighten the screws (A).

5 INSTALLATION OF MOTORIZED AWNING

CAUTION

IT IS PROHIBITED to install the motorized product in an explosive atmosphere.

CAUTION

Use a locking switch (with key) if the awning is installed in sensitive locations such as schools, boarding schools, hospitals, retirement homes, etc.

If the awning is equipped with a radio remote control, keep it out of the reach of children.

CAUTION

If there is an opening/closing switch, it must be located in a protected position at a height of at least 1500 mm above ground level and in a safe place.

CAUTION

The awning must be installed at a minimum height of 2500 mm. If this is not possible, for awnings equipped with automations it is obligatory to install an acoustic warning device.

5.1 - Limit Switch Calibration

INFORMATION AND PRECAUTIONS

Before installation, check that the limit switch is properly calibrated. If it requires adjustment, follow the instructions in the attached "Motor Manual".

5.2 - Electrical Connections and Installation

CAUTION

The electrical connections must be performed by qualified personnel and with the electrical energy disconnected.

INFORMATION AND PRECAUTIONS

IT IS prohibited to connect two or more motors to the same switch due to the risk of induced current that would result in damage to the motors.

Installation of the motorized awning is performed with the same procedure as the manual awning, except for the application of the crank rod (Chap. 4.2, "Box installation", point 3).

Instructions for electrical connection and programming the type of operation are described in the "Motor Manual" which is attached.

6 OPTIONALS

6.1 - Automations

(Only for motorized awnings)

WIND GAUGE, RAIN GAUGE, TWILIGHT SENSOR: installation of these optional is described in the manuals for automations and for requested controls.

! CAUTION

For awnings with automations, the awning must be installed at a minimum height of 2500 mm. If this is not possible, it is obligatory to install an acoustic warning device.

7 SPECIAL MAINTENANCE

7.1 Troubleshooting Table

MANUAL AWNING

PROBLEMS	CAUSES	SOLUTIONS
Conical rolling of canvas	Incorrect symmetry of arms	See manual for Assembly, Chap. 7
	Uneven fabric thickness	Roll the canvass all the way back up

MOTORIZED AWNING

Without electronic control unit

PROBLEMS	CAUSES	SOLUTIONS
Conical rolling of canvas	Incorrect symmetry of arms	See manual for Assembly, Chap. 7
	Uneven fabric thickness	Roll the canvass all the way back up
The awning does not roll up all the way.	Incorrect adjustment of limit switch	See manual for motor (attached)
The awning does not open up all the way.	Movement of motor crown during operation	See manual for Assembly, Chap. 8
The motor is very noisy	Incorrect wiring	See manual for motor (attached)
	Motor defective	See manual for motor (attached)
The motor shuts down after 4-5 minutes of continuous operation	Thermal protection of motor trips	Let the motor cool off for a few minutes

With electronic control unit

PROBLEMS	CAUSES	SOLUTIONS
The awning does not move	Fuse blown	Replace the fuse as shown in the attached manual
	Incorrect wiring	See manual for motor (attached)
The awning moves in jerks (moves for 50 cm, stops, etc.)	Faulty wind gauge	See instructions on automations (attached)
The awning does not roll up in high winds.	Fuse blown	Replace the fuse as shown in the attached manual
	Faulty wind gauge	See instructions on automations (attached)
The awning does not roll up in heavy rain.	Fuse blown	Replace the fuse as shown in the attached manual
	Rain gauge defective	See instructions on automations (attached)
With radio remote control, the awning opens or closes by itself.	Battery dead	Replace battery in radio remote control (see instructions concerning controls)



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