

PRODUCT TECHNICAL AND OPERATIONAL DOCUMENTATION

INSTALLATION MANUAL

- 11. Awnings
- 11.10 Balcony awning **ITALIA**
- 11.10.1 Installation manual



PRODUCT TECHNICAL AND OPERATIONAL DOCUMENTATION

Installation manual

11.10.1 DT-E

PRODUCT NAME

BALCONY AWNING

ITALIA

PRODUCT MANUFACTURER'S MARKING:

Manufacturer's name:

- SELT Sp. z o.o.

Manufacturer's head office:

- 45- 449 Opole, ul. Wschodnia 23A

Website

- www.selt.com

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PRODUCT SAFETY MARKING:

- Product conforms to CE safety requirements

This Technical and Operational Documentation:

- Is valid from: 01 April 2017
 - Is valid for product versions designated above
-

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1 Introduction

1.1 Product safety tips







The product was manufactured in accordance with the latest know-how in the area of constructing and manufacturing technology and is delivered in condition assuring operational safety.

Safe product construction was achieved thanks to:

No.	Subject	European legal basis	Polish legal basis
1	External blinds. Performance requirements including safety	EN- 13561:2004+A1:2008	PN- EN- 13561:2004+A1:2010
2	Construction Products Regulation (CPR)	Regulation (EU) no 305/2011 of the European Parliament and of the Council	DZ. U [Journal of Laws] 2004, No. 92, item 881 as amended of 25 June 2015, DZ. U [Journal of Laws] 2015, No. 1165
3	Essential requirements for machines	Directive 2006/42/EC of the European Parliament and the Council	Resolution of the Minister of Economy of 28 October 2008 DZ.U. [Journal of Laws] 2008.1228

1.2 Notes on symbols and marks

The below symbols (icons) denote particularly important information concerning threats and safety.

Icon	Icon meaning	Information
	INFORMATION	Prior to using the product, its operating manual should be read. Following the operating manual guarantees: - failure-free use of the product, - warranty coverage against product defects. Keep the operating manual for safety of people.
	INFORMATION	No harmful or dangerous consequences for people or facilities.
	ATTENTION!	A situation likely to cause product damage or other damage. No threat for people.
	WARNING!	Threat of danger
	DANGER!	This symbol denotes all information concerning danger, failure to observe which brings about threat to human life and health. Risk: threat of serious injury or death. Dangerous operation which may cause injuries or product damage.
	WARNING!	Threat to human life or health due to electric shock.

1.3 Definitions

The terms and definitions used within this documentation shall mean:

Product: balcony awning ITALIA

Awning:

Window-balcony awning, , as external sun protection screen is installed for protection from sunlight and covering window niches, shop windows, balconies, terraces and verandas. Rolling up and down of the awning fabric is performed with the use of an electric control mechanism or manual crank.

Awning fabric:

Part of the product serving for protection from sun light, but also having a decorative function. Manufactured from high quality materials is put into motion with manual or electric control mechanism, assuring the product fulfills its function.

1.4 Subject, designation and contents of the documentation

Products manufactured by **SELT SP. Z O.O.** are the subject of this documentation. This documentation is valid for all type of **ITALIA** balcony awning.



The documentation is valid jointly with the information concerning a specific product, which is available on the website www.selt.com

The documentation is a component of product delivery and should be constantly stored in its proximity.

The documentation includes:

- important recommendations concerning product installation, use and maintenance,
- important recommendations concerning product transport and storage,
- tips following which will assure long-time and fault-free use of the product.

SELT SP. Z O.O. shall not bear responsibility for damage resulting from failure to follow recommendations included in the documentation.

In order to further improve the product, SELT SP. Z O.O. reserves the right to introduce changes which, while maintaining the essential technical parameters, shall be deemed purposeful for improving product operation quality and safety of use.

SELT SP. Z O.O. with a head office in Opole shall hold the copyrights to this documentation. The documentation cannot be used without permission, either partially or as a whole, for any concurrent business activity nor can it be made available to third parties.

2 Product technical information

2.1 Technical parameters

Projection:	1,0 m, 1,4 m, 1,8
Maximum projection	1,8 m
Minimum width	30 cm
Maximum width	5,0 m
Roller tube diameter	70 mm
Arms	Lowered, aluminum, with spring
Tilt angle	0° - 160°
Manual drive	Crank 1,5 m, 1,8 m, 2,2 m
Electric drive	Motor, motor with emergency override, remote control receiver, weather sun-wind automation.
Construction colour	White, beige, brown, silver, structural graphite
Fabric	C. 140 patterns
Valance	Height 21 (±0,5 cm), shape according to templates.
Application	External
Mounting brackets	Wall, ceiling

The tolerance of external dimensions is ± 2 cm

Due to technological reasons, slight differences in colour shade are deemed acceptable and they are not a ground for complaint.

Motors technical data

www.selt.com → PRODUCTS → AUTOMATION → ALL → MOTORS

2.2 Italia awning construction



3 Product installation

The following part covers general requirements of the product installation. Proper installation is necessary for efficient operation of the product. SELT SP. Z O.O. recommends to use services of skilled installation crews what guarantees the Purchaser proper installation.

3.1 General requirements for safe installation

- it is necessary to follow general rules of construction art
- it is necessary to follow health and safety regulations, especially concerning work with electricity and at heights,
- product should be installed on even and dry wall surfaces that at the same time ensure proper strength and are completed according to general rules of building art,
- before starting the installation remove all unnecessary elements from the installation area.

3.2 Requirements for safe installation at heights



Installation of the product, because it requires performing work at heights, is particularly dangerous because it poses a high risk of danger to human health and safety and in particular fall from height.

Preparation of a plan on health and safety during installation is the responsibility of the Purchaser.

Purchaser should determine specific requirements of health and safety when working at height, and especially to ensure:

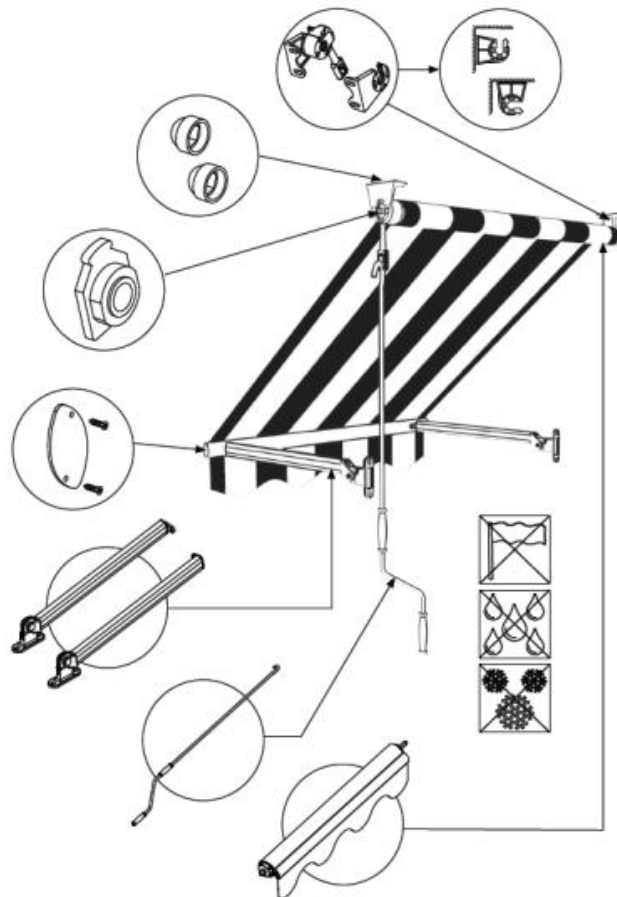
- direct supervision of work execution by the designated person (e.g. the foreman),
- adequate safeguards measures, in particular protective equipment against falls from height,
- detailed instruction of employees performing work at heights.

Work at heights above 2 meters, requiring using personal protective equipment against falls from height, must be performed by at least 2 people.

Work at heights should be organized and carried out in a way that does not force employees to lean out of the railings or outline of a device on which they stand. The buyer has an obligation to ensure that areas of work at heights can be accessed only by authorized and informed personnel. Health and safety professionals should inform employees residing or staying at the conduct of such works or in the vicinity of the site about conducted operations at heights and the necessary safety measures to be applied during this work.

3.3 Preparation to installation

- unpack product and check if it contains all necessary elements for installation,
- make sure that the base where product will be mounted provides sufficient bearing capacity for safe installation and operation of the product,
- prepare set of tools necessary for installation.



3.4 General guidelines for installation

- To avoid the risk of hand and fingers harm during opening and closing of the awning, the awning should be installed on such height so that the lowest element of the awning after it is opened is at least 2200mm above the ground,
- The product should be protected against any stains made by e.g. silicon, mortar or mounting foam, which may cause its damage,
- Using any chemical substances containing bituminous substances or any other substances making reactions with the product is forbidden,
- In case of installation in public places, e.g. hospitals, schools, boarding schools etc. the placement of switch/remote control device should be marked according to health and safety regulations,
- In case of remotely operated awning, bracket for remote control should be installed in place not available for children,
- Electrical installation, first programming of motor and specialized service can be conducted solely by specialized service companies.



Awning installation, adjustment and test its testing can be carried out by service crew or trained persons only. Person conducting the installation and first run is responsible for appropriate fixing of the awning including fixing elements, allowing for its correct operation and parameters.



Improper installation may cause hazardous situation for the user.

3.5 Installation tools

				drills hammer drill ladder/scaffolding screw driver hammer measure tape	pencil/marker spirit level ring and flat wrenches Allen keys anchors

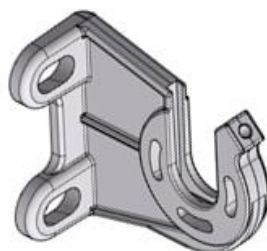
3.6 Italia awning installation

For base – uncracked concrete C20/25 class and no higher than C50/60:

- For mounting wall-ceiling brackets- anchors M10x110 A4 embedded on injection mortar (recommended anchors from Fischer FIS A M10x110 A4 on resin FIS V360, embedment depth in concrete shall be 80 mm, or equivalent product from different supplier).
- For mounting arm brackets – anchors M8x90 A4 embedded on injection mortar (recommended anchors from Fischer FIS A M8x90 A4 on resin FIS V360, embedment depth in concrete shall be 77 mm, or equivalent product from different supplier).
- Minimum base thickness is 150 mm for M10 anchor.

The wall-ceiling brackets should be installed on the edges from both sides of the awning.

Wall-ceiling bracket (right side)



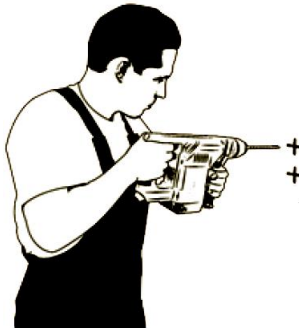
1) Prepare installation tools according to the list.



2) Start the installation with marking installation spots for brackets. Level the bracket vertically with spirit level and mark places for installation holes.



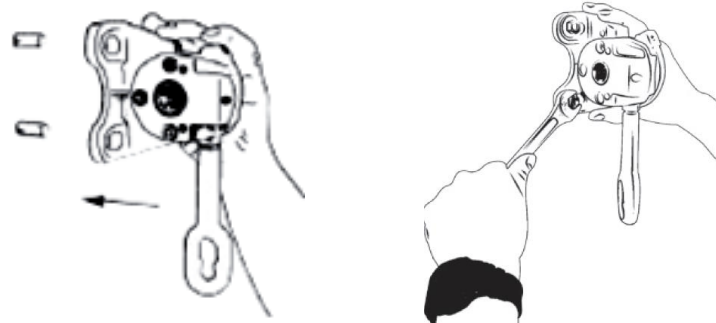
3) Drill in marked places.



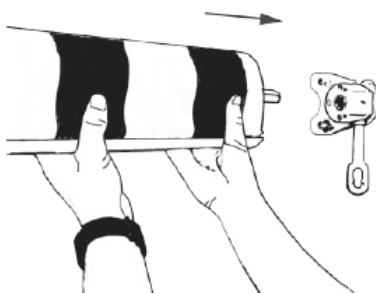
4) Fix installation anchors.



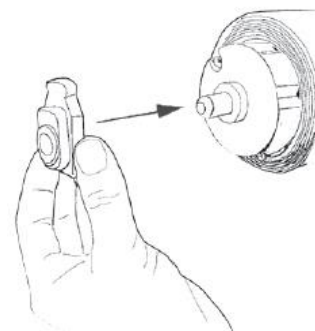
5) Install wall bracket (from the drive side).



6) Set up the awning with plug and square pin on the bracket from the drive side.



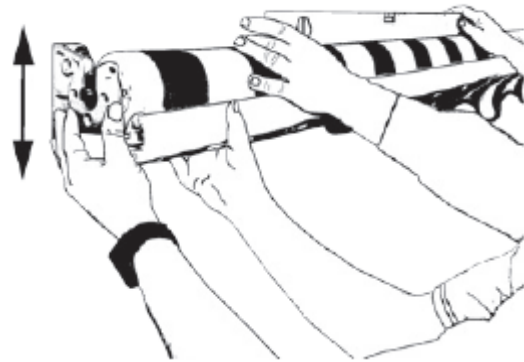
7) Insert the slide bearing to the round pin on the roller tube ending .



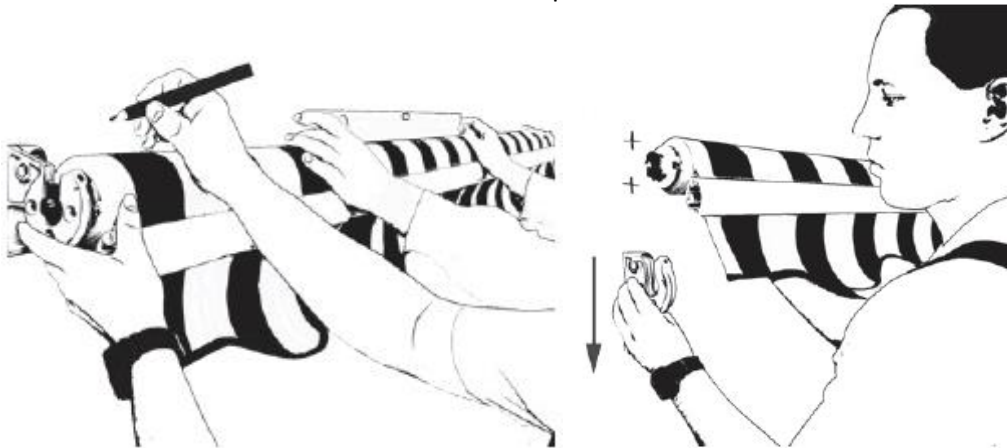
8) Put the second bracket on the round pin with slide bearing.



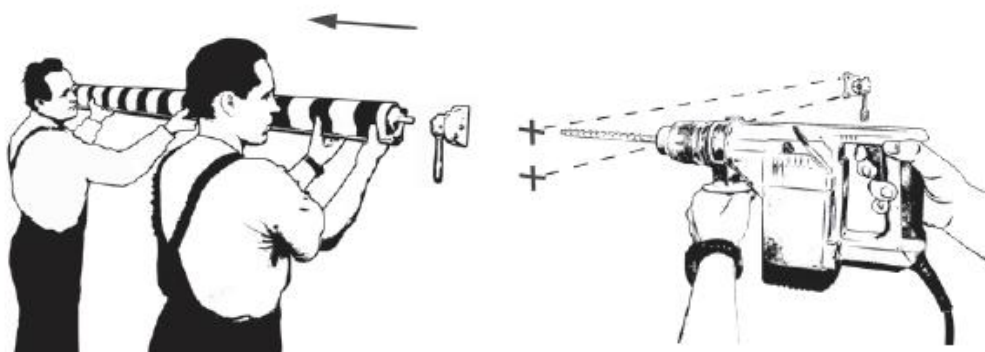
9) Level the awning horizontally with spirit level.



10) Mark the installation spot for the second bracket. Pay particular attention so that brackets are installed at the same horizontal level and in the same plane.



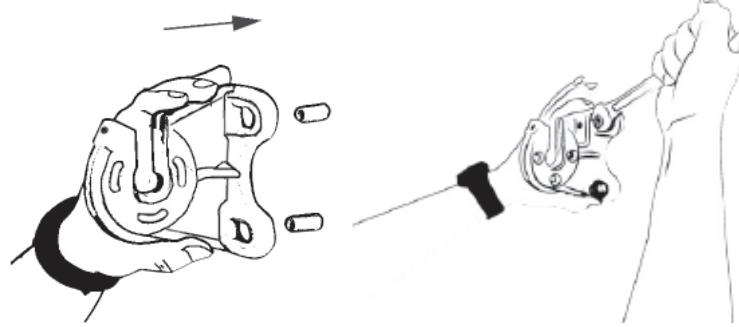
11) Take off the awning and drill holes in marked places.



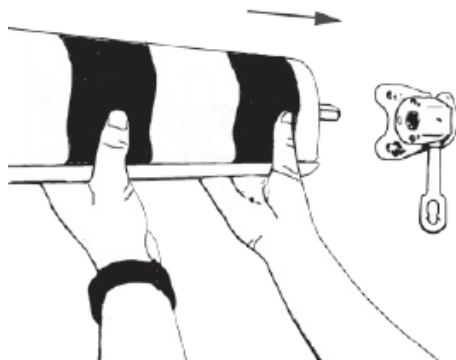
12) Fix installation anchors.



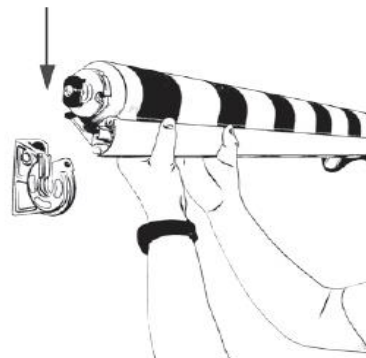
13) Screw on the bracket.



14) Set up the awning with plug and square pin on the bracket from the drive side.



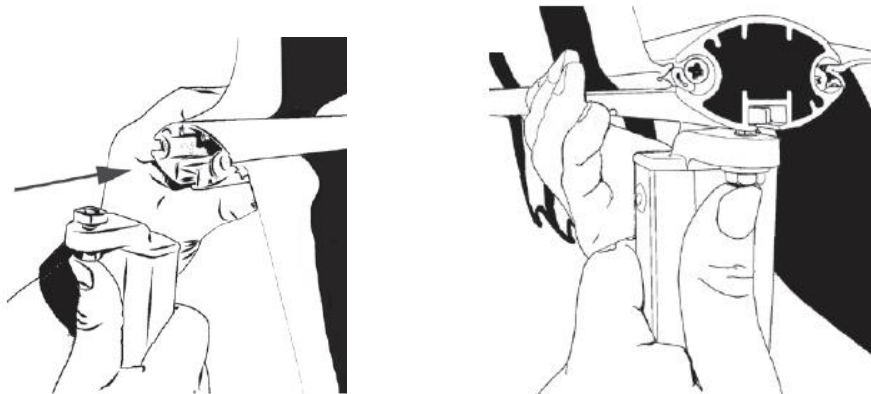
15) Put the awning with the round pin and slide bearing into the second bracket. Block the bearing with Allen screw.



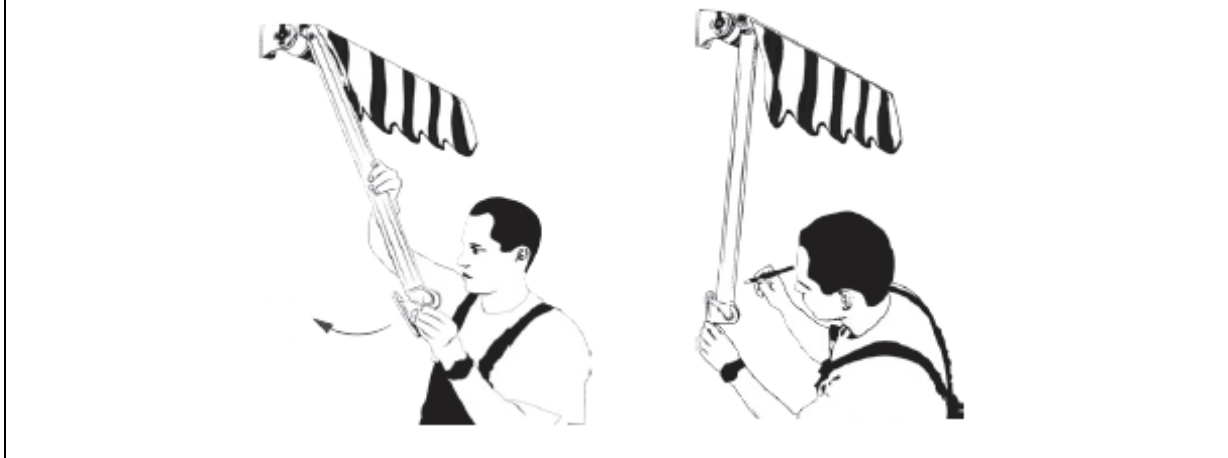
16) Open the awning slightly.



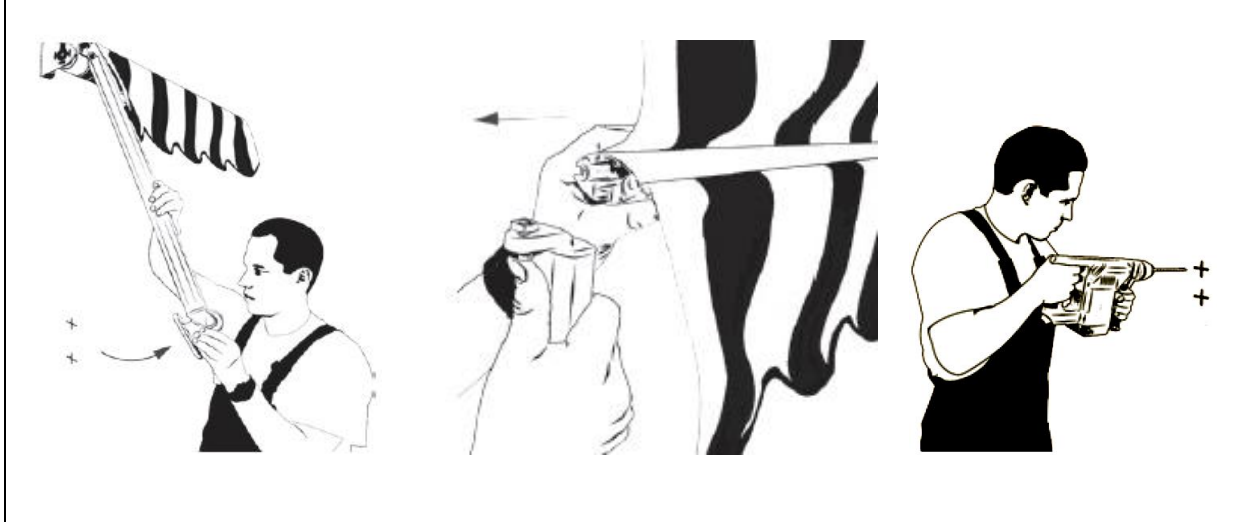
17) Slide the arms endings to the front bars channel and secure them with screws.



18) Start the arms installation with marking the installation spots for arm brackets.



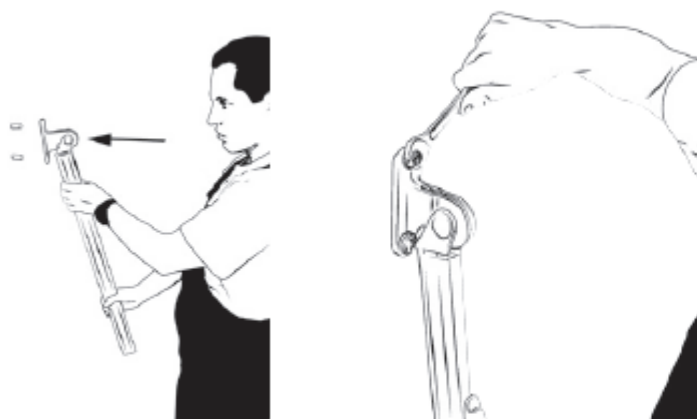
19) Unscrew the arm from the front bar and drill holes in marked places.



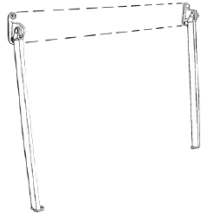
20) Fix installation anchors.



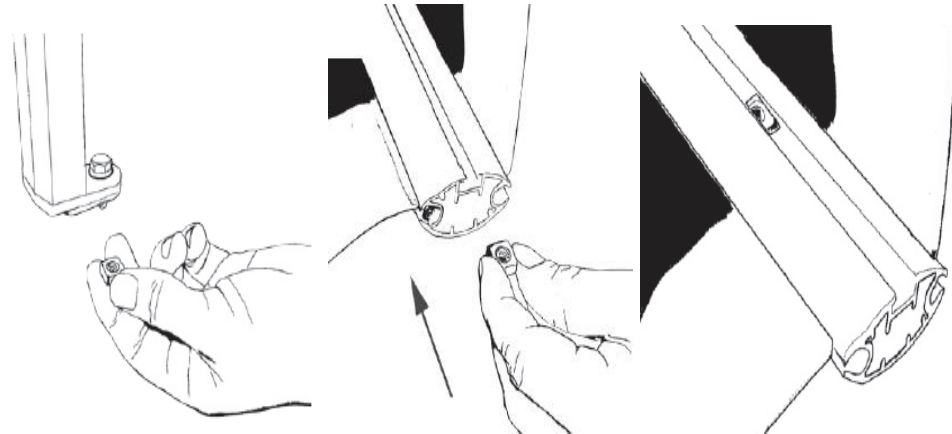
21) Fix the arm.



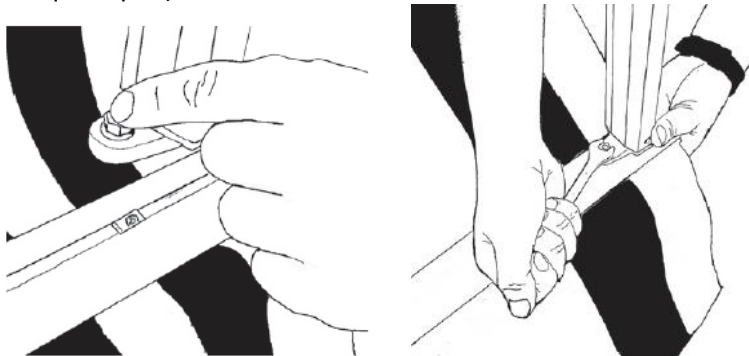
22) Fix the second arm.
Keep the horizontal level of the brackets.



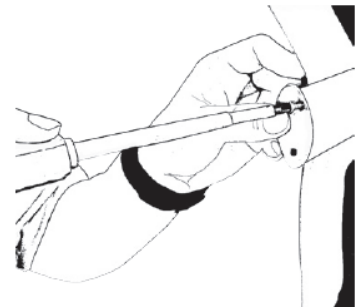
23) Unscrew the square pad from the arm ending and slide it into front bars channel.



24) Fix the arms ending with the front bar (tighten the screw with the square pad).



25) Install front bar caps using screws.



3.7 Italia awning installation – arm brackets installation in a niche (niche bracket)



- The arm brackets can be installed in a niche with niche brackets.
- The niche brackets should be installed in the same order and manner as wall brackets.
- Make sure that niche brackets are aligned, i.e. in the same distance from the wall
- To the installed niche brackets install arm brackets with set of M10x35 screws with washers and nuts.

3.8 Electric drive

The installation must be performed by an electrician possessing appropriate permissions and professional experience. The connection should be made in accordance with the previously elaborated, individual electric diagram and according to the motor manual. There is a possibility of individual and group control with one or multi-channel remote control.

Transmitters and receivers should be programmed according to the instructions attached to the engines.

When the awning starts working special attention should be paid to correct rolling up and down of the fabric and proper functioning of limit switches in the motor.



The engine has a thermal switch, which turns off the drive after about 4 minutes of continuous work to protect from overheating. After turning off by the thermal protection appropriate time should pass before turning it on again, depending on the type of engine and atmospheric conditions (several minutes).

List of steps:

- Connection to the electricity supply,
- Connection to the electrical control system.

3.8.1 Connection to electrical installation

After the product is installed one may proceed to connecting the drive and control system to the previously prepared systems: power supply and control systems.

Connection to the power supply system should be made in accordance with the previously elaborated individual electric diagram, including fire protection regulations.

Electrical connection and adjustment of motors should be performed according to the motor manufacturer's manual taking into account the environmental conditions in which the product will be operated.

Regular environmental conditions:

Such conditions are found in e.g. apartments, offices, event and theatre halls, school classrooms (excluding some laboratories) etc.

Environmental conditions of increased threat:

Bathrooms and showers, kitchens, garages, cellars, saunas, rooms for domestic animals, operating theatres in hospitals, pump rooms, heat exchange rooms, spaces limited by conducting areas, campsites, open spaces, etc. are regarded as environments with increased threat conditions.

In rooms and spaces where there are increased threat conditions, automatic devices for switching off power supply to the damaged product should be used, e.g. residual current devices.

Residual current devices:

- Recommended for use in bathrooms, kitchens, garages and cellars,
- They are to be used obligatory at swimming and shower pools, saunas, construction sites, while supplying appliances in open spaces, on agricultural and horticultural farms, on campsites and in camper vans, as well as in rooms where there is fire hazard.

Residual current devices are only supplementary protection from direct contact, they cannot be the only means of protection. The goal of their application is to supplement the protection in case other means of protection from direct fail or in case of user's carelessness.

During installation attention should be paid to usage safety rules, e.g. minimum height electrical appliances can be installed at.

General safe connection guidelines:

- The connection must be performed by electrician possessing appropriate permissions and experience,
- During connection health and safety regulations should be observed,
- Electrical connection and adjustment of motors should be performed according to the motor manufacturer's manual added to the product.



Incorrect connection of the motor can lead to product damage or create a hazardous situation.

3.8.2 Remote operation

Remote operation programming (assigning remote control appliances, weather sensors and other operation elements) should be performed according to the manufacturer's manual added to the product.

3.8.3 Start-up and adjustment**Recommendations and actions:**

- extreme position (up and down movement of the fabric) are protected by limit switches that needs to be adjusted during the installation,
- person performing the adjustment of extreme positions should possess adequate electrical permissions, knowledge and experience,
- adjustment of limit switches must be done in accordance with motor's maintenance manual,
- prior to the first start of the product electrical measurements should be performed by person holding adequate permissions,
- do not start the motor without checking the correctness of system installation,
- after the awning is put into motion with a switch do not take off the casings, end covers, lean on the product, leave tools on it,
- after each re-assembly in a new place the product and electrical installation earth circuit should be checked.

When the awning starts working attention should be paid to:

- Correct rolling down and up of the fabric,
- Correct activation of limit switches.



Self-regulation of extreme position by an untrained person may lead to product damage.

3.9 Manual drive

- Setting the awning tilt angle is performed with a crank.
- The fabric tension is provided by the lowered arms with a spring.
- Gears 11:1 are not equipped with overturn protection (so called mechanical end stop).
- Pay attention to the maximum awning tilt angle.
Do not allow the fabric to be rolled in the opposite direction (from the bottom of roller tube), since it may cause its ripping off the roller tube, fabric damage or incorrect awning functioning.

4 Final remarks

4.1 Completeness and qualitative state of delivery

Awning is delivered with installed arms, fabric and wall brackets, with accompanying additional packages.

Selt SP. Z O.O. makes every effort to ensure that the goods are produced in accordance with the order. To check the completeness of the product is purchaser's duty and it should be conducted at the time of delivery. Any discrepancies of the product with the order should be reported immediately to the driver/warehouseman/installers and noted in the proof of delivery at the risk of rejecting claims regarding quantitative discrepancies. Checking the quality of the apparent defects should be done by the purchaser at the time of delivery. As apparent defects are considered mechanical damages, scratches, cracks, etc. Any discrepancies in quantity or possible replacements of parts being the evident result of Selt SP. Z O.O. fault, the company agrees to supplement or replace in the shortest possible time.

4.2 General conditions for transport and storage of the product

- The product is factory-packed in a cardboard box to prevent its damage during storage, transport and during its transportation to the place of final assembly,
- For the transport purposes, the products should be set in accordance with the arrows on the packaging,
- Store the product in a way preventing the package from crushing, what in turn may lead to product permanent damage,
- Products placed on the means of transport must be secured against movement and damage during transport (e.g. spacers, safety belts, etc.).
- During transportation the products must be protected from the rain or snow,
- Storage places should be dry, airy and protected from the harmful effects of weather conditions (sun, rain, etc.),
- Where the weight of the product exceeds 25kg and its transportation to the place of final assembly must be carried out by at least two persons.

5. Disassembly/ Utilization/ Disposal



Improper system disassembly can result in severe injuries and system damage. System disassembly should be commissioned to a properly qualified assembly team or to a person suitably trained within industrial safety and with the knowledge concerning recovery.

Disposal of worn electrical and electronic equipment

After the end of product lifetime it must be disassembled and separate material must be segregated according to Regulation of the Minister of Environment of 9 December 2014 on waste catalogue – Dz. U. [Journal of Laws] of 2014 item 1923

Important information concerning utilisation:



Pursuant to the regulations of the Act dated of 11 September 2015 about waste electrical or electronic equipment, it is forbidden to place used appliances marked with a crossed out waste bin symbol jointly with other waste. The User wishing to dispose of electronic or electrical equipment is obliged to take it to the used equipment collection spot.

The above legal obligations were introduced in order to reduce the amount of waste due to used electrical and electronic equipment and to assure a proper level of collection, recovery and recycling. There are dangerous elements in the equipment which are of particularly adverse effect on the environment and human health.

No.	Subject	European legal basis	Polish legal basis
1	Waste electrical and electronic equipment	Directive 2012/19 EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE)	Act of 11 September 2015 Dz. U. [Journal of Laws] of 2015, item 1688 on waste electrical and electronic equipment
2	Waste catalogue	Commission Regulation (EC) No. 574/2004 of 23 February 2004 amending Annexes I and III to Regulation (EC) No. 2150/2002 of the European Parliament and of the Council on waste statistics.	Regulation of the Minister of Environment of 9 December 2014 on waste catalogue – Dz. U. [Journal of Laws] of 2014 item 1923.

Disposal of waste batteries

In accordance to the Act of 24 April 2009 on batteries and accumulators final user is obliged to pass waste portable batteries, which are no longer energy source, to a collection spot or to a special collection bin. It is forbidden to put waste batteries in the same container as other waste.

In order to prevent environment pollution and posing possible threat to human and animal health, dispose of the used battery to a proper collection bin in the assigned collection spots.

No.	Subject	European Legal Basis	Polish Legal Basis
1	Waste batteries and accumulators	Directive 2006/66/EU of the European Parliament and of the Council of 6 September 2006 on waste batteries and accumulators and repealing directive 91/157/EEC	Act of 24 April 2009 on batteries and accumulators Dz. U. [Journal of Laws] of 2009 no. 79, item 666

6. Making and labelling the product with the CE mark.


6.1 Product compliance with the CE standard.


Products manufactured by SELT company meet the essential requirements of the standard introduced by the Polish Committee for Standardization as PN-EN 13561, which is confirmed by the manufacturer's declaration of performance and marking the product with the CE mark.

In order to maintain this condition and assure safe use and maintenance of the system, the installation and operating manual and instructions for safe use must be observed.



6.2 Information accompanying the CE marking.

a) Marking on the product:


SELT Sp. z o. o. Opole, ul. Wschodnia 23A
EN 13561


SELT Sp. z o. o. Opole, ul. Wschodnia 23A
2006/42/EC

b) Marking on the accompanying documents:

	
<p>SELT Sp. z o. o. Opole, ul. Wschodnia 23A POLAND 07</p>	<p>SELT Sp. z o. o. Opole, ul. Wschodnia 23A POLAND 07</p>
<p>EN 13561 Awning ITALIA 500x100 for external use. Wind load resistance: 2 class Total solar energy transmittance g tot: 0,01-0,90* DWU 21 / M / 2017</p> <p>Awning ITALIA 500x100 for external use. Wind load resistance: 1 class Total solar energy transmittance g tot: 0,01-0,90* DWU 22 / M / 2017</p>	<p>Awning with folding arms ITALIA 230V/ 50 Hz Power 198 to 275 W 01 / DZ/2017</p>
<p>*- external sun protection screen with glazing type C according to EN 14501:2005; detailed data depending on the fabric type are given in a table on manufacturer's website</p>	