

EVERHOT

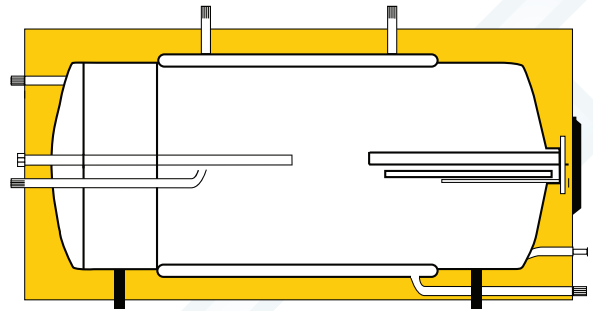
SOLAR WATER HEATER



EVERHOT SOLAR WATER HEATER

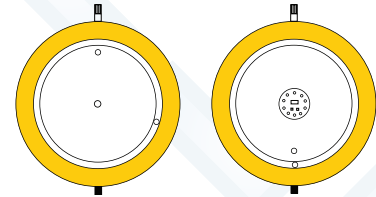
TECHNICAL SPECIFICATIONS OF THE STORAGE TANK

- External casing : anodized aluminium
- Tank's insulation : polyurethane foam 40-55 mm
- Cylinder's material : galvanized sheeting 3mm
- Jacket's material : low carbon steel 1,5 mm
- Cylinder's internal Protection : durosfalt 80-120 microns
- Additional protection : magnesium rod
- Electric resistance : copper
- Thermostat : bipolar of four contacts
- Power rate : available from 0,8kw – 4kw

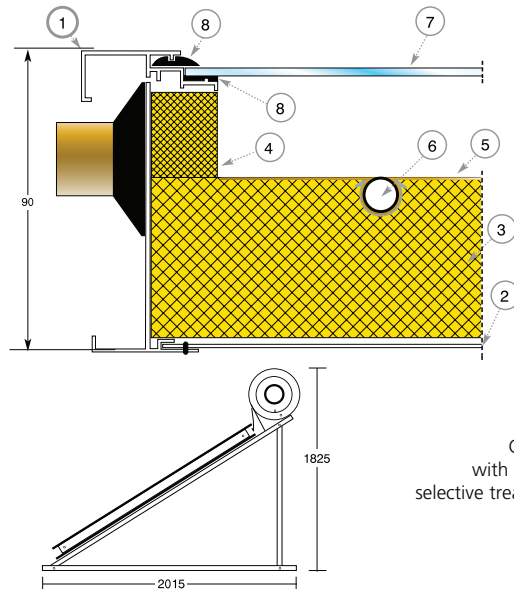


TECHNICAL SPECIFICATIONS OF THE COLLECTOR

1. External frame : anodized aluminium profile
2. Back side : galvanized sheeting - 0,6 mm
3. Back insulation : rock wool 40 mm
4. Side insulation : glass-wool of 20 mm
5. Absorber : A unique sheet of copper with selective titanium coating or with black paint / ultrasonic weldings or type "omega" (Ø).
6. Absorber's tubes : copper pipes Ø 10 & Ø 22 (risers and headers)
7. Cover : solar tempered glass
8. Water-tightness : EPDM rubber/transparent silicone



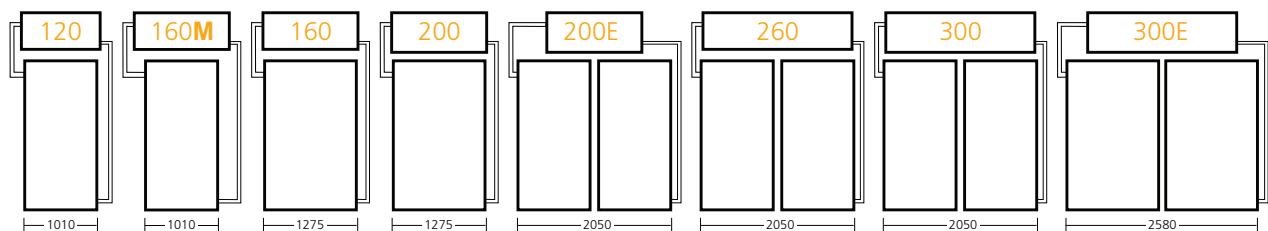
Collector with black coating



Collector with titanium selective treatment



EXTERNAL DIMENSIONS - ALL MODELS



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EVERHOT MODEL	STORAGE TANK		COLLECTOR				SUPPORT BASE Weight kg	TOTAL WEIGHT kg	
	Dimensions mm	Weight kg	Dimensions mm	Collectors	Surface m²	Weight kg (per collector)		EMPTY	FULL
200E	570x1320	70	2050x1010x90	2	4,20	43	28	184	376
300E	570x2050	114	2050x1275x90	2	5,20	51	30	246	536

• HELIOAKMI S.A. reserves the right to change the specifications of the product and/or their accessories without prior notice.

Assembly diagram of the support base on a flat surface

ASSEMBLY INSTRUCTIONS

Before choosing the location and the installation point, ensure that it is not shaded by any obstacle (trees, buildings... etc, see obstacle diagram page 10).

The same support base is used for either sloping or flat surfaces.

Connect the plates A, B, C, D, U and Z by screwing them tight as shown in the drawings.

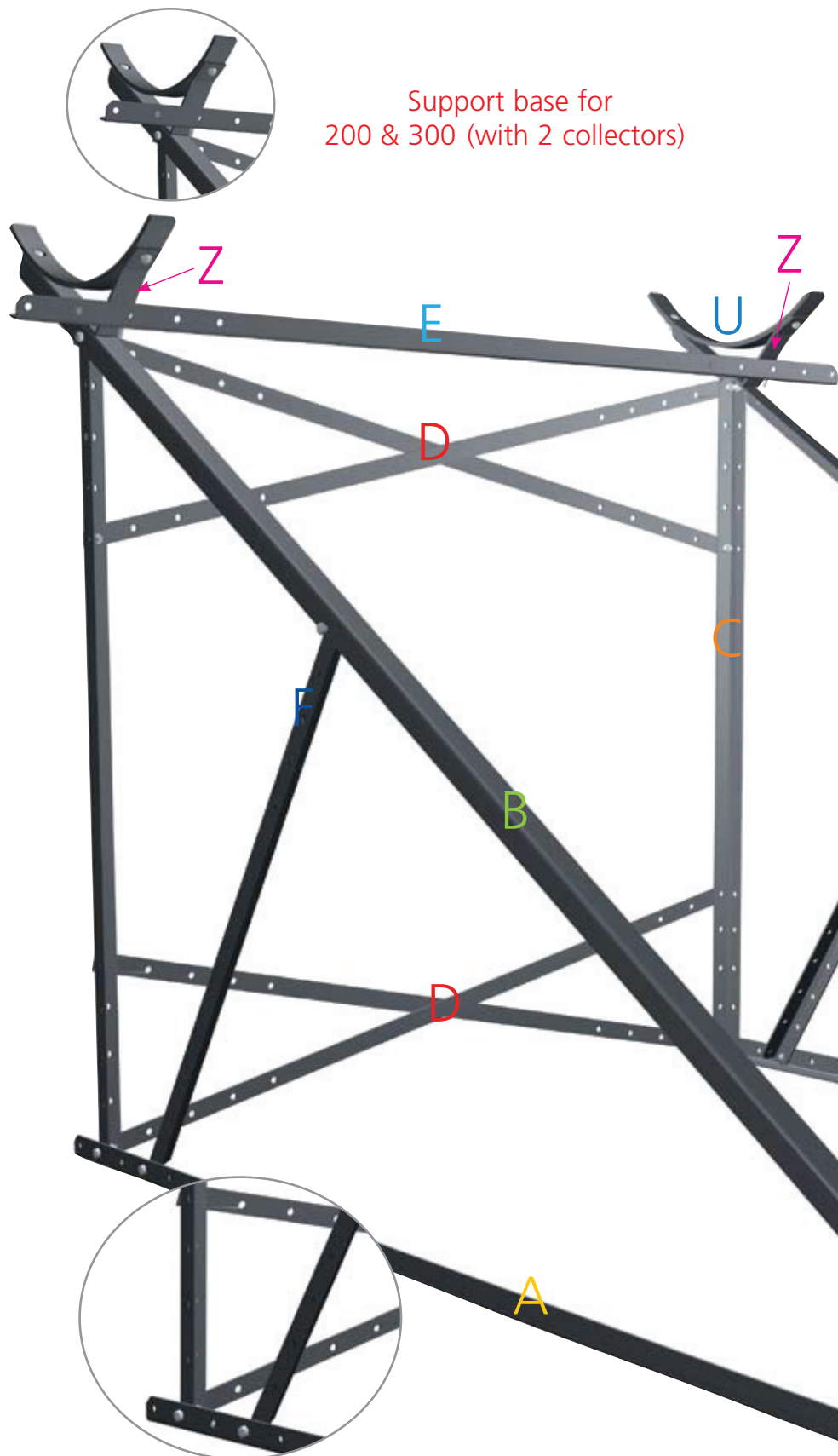
For models 260 and 300, screw also the plates F. Screw gently the bottom plate E on the plates B.

attention

The top plate E is adjusted after the placement of the collectors.

Plumb the support base on the flat surface's level. Place the collector(s), on the support base and then screw it with the moly plugs and the screw nuts on the concrete, according to your country's regulations.

Support base for
200 & 300 (with 2 collectors)



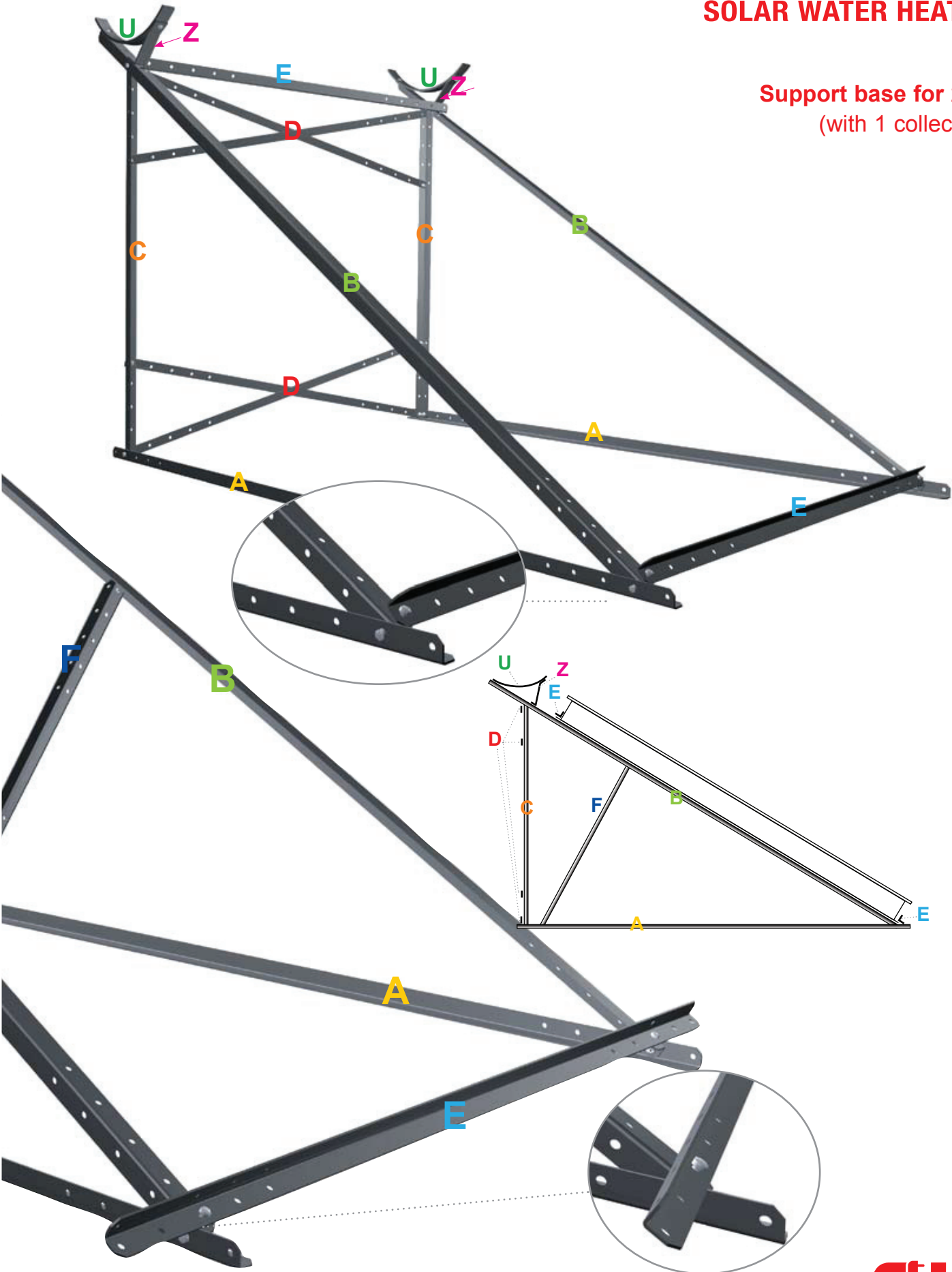
LENGTHS OF THE SUPPORT BASE PLATES

A = 2015 mm	SAME FOR ALL MODELS
B = 2360 mm	
C = 1150 mm	
D = 1180 mm	FOR MODELS 200-300
E = 1150 mm	FOR MODELS 200 with one collector FOR MODELS 200-300 with two collectors
E = 1430 mm	
Z + U	SAME FOR ALL MODELS
F = 930 mm	ONLY FOR MODELS 260-300

EVERHOT

SOLAR WATER HEATER

Support base for 200
(with 1 collector)



Analytical description of the storage tank's and collector's components



Filling Instructions of the Closed Circuit with



For antifreeze protection of the solar water heater, please follow the ratio of antifreeze protection stated in the table here below.

Mix well the thermal fluid with water.

Start filling the closed circuit with the mixture, from the pipes (14) and (02).

The filling must be done alternatively, from both pipes (14) and (02).

During the filling, we advice you to shake the system, so that to ensure that no air is trapped inside the storage tank and the collector.

Continue this procedure until the close circuit is completely full.

The responsibility for the correct use of the antifreeze liquid quantity is for the account of the installer and in no case of Al Huraiz

The use of water only or other liquid may cancel the validity of the warranty.

ANTIFREEZE PROTECTION RATIO TABLE FOR SOLAR WATER HEATERS

MODEL		EVERHOT 200E x 4.20m ²	EVERHOT 300E x 5m ²
CLOSED CIRCUIT TOTAL CAPACITY		18 lt	23 lt
TEMPERATURE	RATIO		
- 5°C	Water	16 lt	20,5 lt
	Fluid	2 lt	2,5 lt
- 11°C	Water	14,5 lt	18,5 lt
	Fluid	3,5 lt	4,5 lt
- 18°C	Water	12,5 lt	16 lt
	Fluid	5,5 lt	7 lt
- 20°C	Water	12 lt	15,5 lt
	Fluid	6 lt	7,5 lt
- 27°C	Water	10,5 lt	13,5 lt
	Fluid	7,5 lt	9,5 lt
- 36°C	Water	9 lt	11,5 lt
	Fluid	9 lt	11,5 lt

Please take into account also to the dilution table on the bottle of the antifreeze liquid.

Assembly diagram of the support base on a surface with maximum inclination of 32°

ASSEMBLY INSTRUCTIONS

Before choosing the location and the installation point, ensure that it is not shaded by any obstacle (trees, buildings... etc, see obstacle diagram here below).

The same support base is used for either slopping or flat surfaces.

Connect the plates (A) and (C) so that to form a parallelogram frame, as shown in the drawing.

Bend the four (D) plates as shown in the drawing. Remove the tiles, and place the bended plates (D) on the wooden timbers or on the concrete of the roof.

Screw tightly the parallelogram frame (A)+(C) on the plates (D). Plumb the support base and screw the plates (D) on the wooden timber of the roof (see drawing).

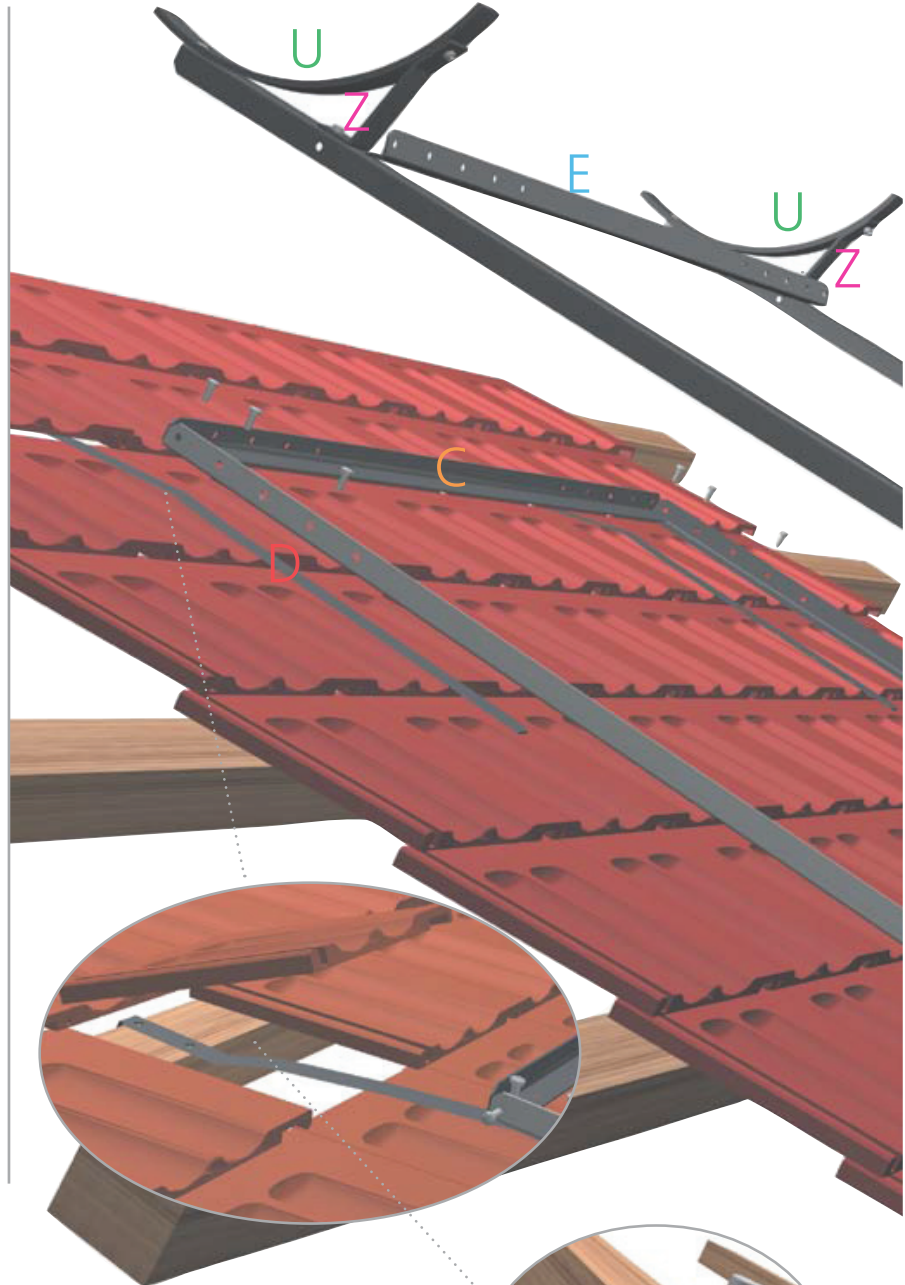
Screw the plates (B) on the parallelogram frame (A)+(C). Ensure that the plates (B) are tightly screwed on the holes of the plate (A).

Screw gently the bottom plate E on the plates B.

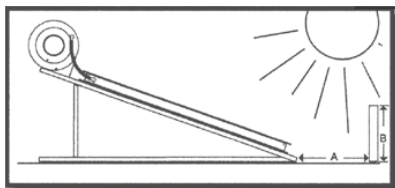
attention: The top plate (E) is fixed after the placement of the collector(s).

note: The standard support base can be used also for surfaces with minimum inclination 15° and maximum 32°.

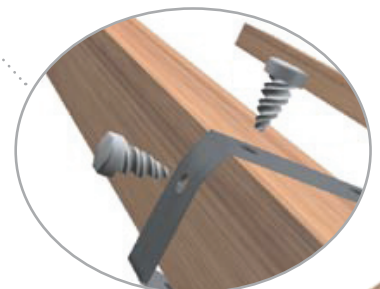
For smaller or greater inclinations, different equipment is offered.



OBSTACLE TABLE



Latitude	Distance between collector and obstacle
0°- 25°	A = 1,0 x B
25°- 35°	A = 1,5 x B
35°- 45°	A = 2,0 x B
45°- 50°	A = 2,5 x B
50°- or more	A = 3,0 x B



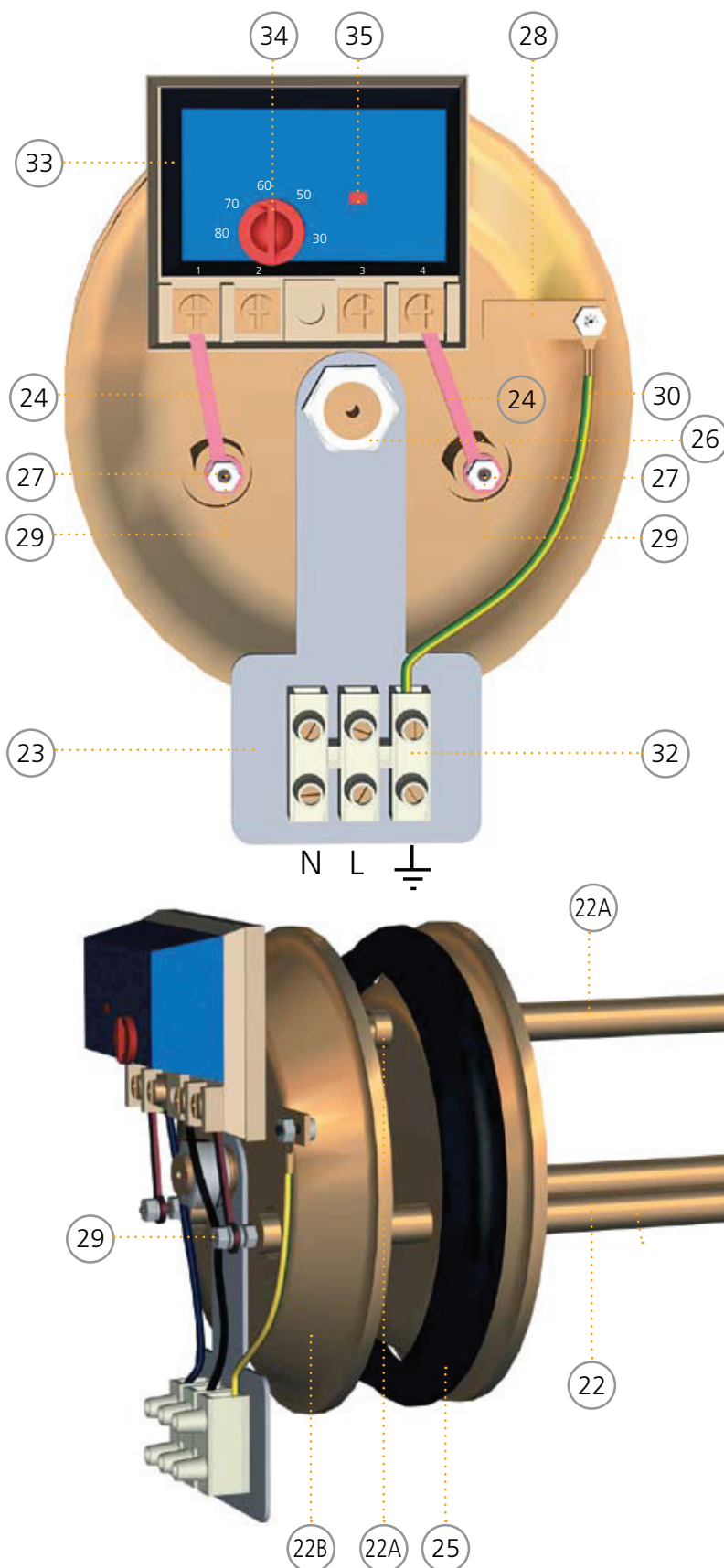
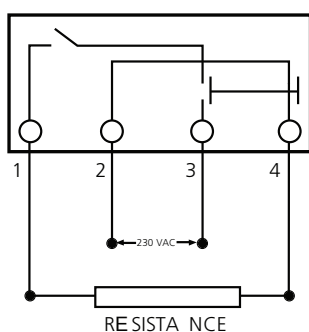
DESCRIPTION OF THE PARTS OF THE ELECTRIC RESISTANCE AND THERMOSTAT

- 21 Plastic cover
- 22 Electric resistance
- 22A Thermostat's socket
- 22B Resistance's cover
- 23 Base of multiple plug (for the electric lines)
- 24 Metal wires for the connections of the resistance with the thermostat
- 25 Rubber flange for water tightness
- 26 Central nut
- 27 Tightening nuts
- 28 Grounding lug
- 29 Electric resistance's lug
- 30 Grounding wire
- 31 Power wire
- 32 Multiple plug for power lines
- 33 Thermostat
- 34 Temperature control
- 35 Safety thermal switch (indication "F" or "S")

CONNECTION OF THE CABLES

1. Turn off the power main supply.
2. The cover of the electric resistance is on the right hand side of the storage tank. Unscrew the two screws and remove the cover.
3. The thermostat is adjusted from the factory at 60°C. You can adjust it at the temperature you wish, by using the temperature control (34). In that case we advise that the temperature you will fix not to exceed 75°C.
4. Check the safety thermal switch (indication "F" or "S") on the thermostat. The safety switch is in operation when it is pushed in.

DIAGRAM OF ELECTRIC CONNECTION OF THE THERMOSTAT



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