

# Circular Roofing System



Assembly and Operation Manual

## **1. General**

The roofing system consists in the structure made of aluminium sections and the covered by the combination of opaque tent canvas and transparent PVC foil.

After being assembled and erected on the intended place, the roofing must be fixed in position by means of anchors provided for the purpose.

## **2. Basic Information**

In the erection of the roofing system the following instructions should be observed.

Roofing system erection should be carried out by two persons, at least.

A clean and dry horizontal flat area found close to the place of installation should be chosen for assembling the roofing system, of the size sufficiently larger than the ground plan of the system. The weight of assembled roofing system amounts to about 30 – 50 kg and can be carried to the place of its installation by hand. It is recommended to cover the area of assembly with a suitable pad (paper, paperboard, a mat or carpet) to protect roofing components from scratching in the course of assembly. Recommended tools: a rubber mallet and a round file.

Don't erect or handle the roofing system in windy weather.

## **3. List of Components. the Content of Package**

<b>No.</b>	<b>Position on drawings</b>	<b>Description</b>	<b>Pcs</b>
1	L	Cotter pin	16
2	K	Coupling 1	6
3	J	Coupling 2	33
4	G	Plastic part of anchor	4
5	B	Arch-shaped tube, Ø 20 mm	44
6	A	Arch-shaped tube, Ø 40 mm	8
7	E	Joint	2
8		Canvas	1
9		In-bush wrench, .10"	1
10		Anchor	4
11		Foam pad	4
12		Lock	4
13		Centring pin (to make coupling assembly easier)	1

Note: The figures and descriptions shown in this Manual need not exactly correspond with the version supplied

The manufacturer reserves the right to introduce product changes and modification without updating this Manual.

## 4. Roofing Erection

### Step 1: Preparing the canvas

Unpack and unfold the canvas and lay it on the ground in the direction in which is to be mounted on the structure, i.e. Velcro fasteners facing inside.

It is not recommended to mount the canvas in windy weather.

### Step 2 Assembling the peripheral circle

The roofing canvas edge is provided with a sleeve, in which the arches  $\varnothing 40$  mm (A) should be slid in as follows: Take an arch  $\varnothing 40$  mm (A) and push it in the sleeve. Insert a coupling (K) in the arch end and secure the mutual position of the two parts with a cotter pin (L) put in the corresponding holes. To make the installation of the cotter pins in the holes in the coupling and in the arch you can use the centring pin supplied. . Slid the end of the other arch, placed in the adjoining sleeve, in the coupling and secure the connection with other cotter pin (L). Both cotter pins should be inserted from the same side of the coupling with the pin noses facing the arch centre (see Fig. 1). Using the same steps, assemble **the two** half-arches. When assembling the arch, the plastic parts of the anchor (G) has to be inserted, each between the cotter pins of the connections of the first and second arch segment and of the connection of the third and fourth arch segment of the (horizontal) half-arches (as shown in Fig. 2).

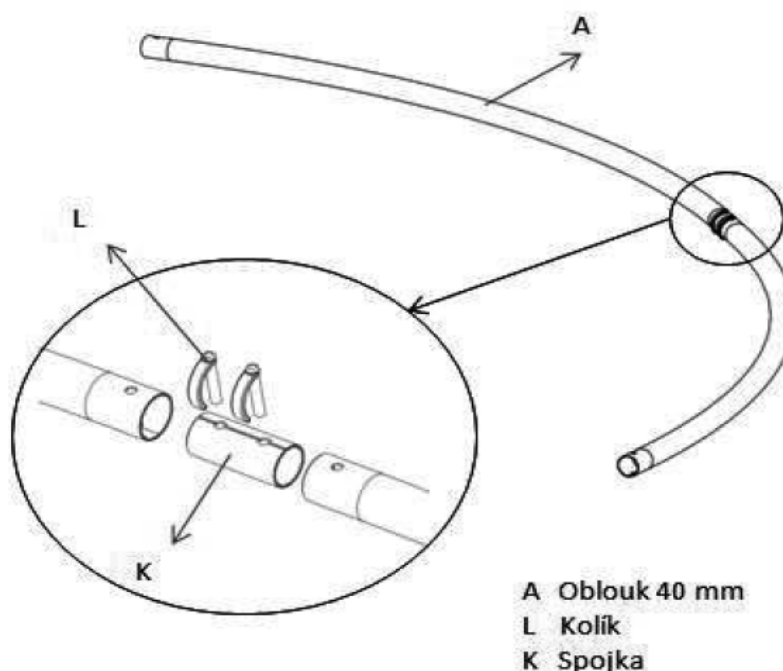


Fig. 1.

A – Arch  $\varnothing 40$  mm  
K – Coupling  
L – Cotter pin

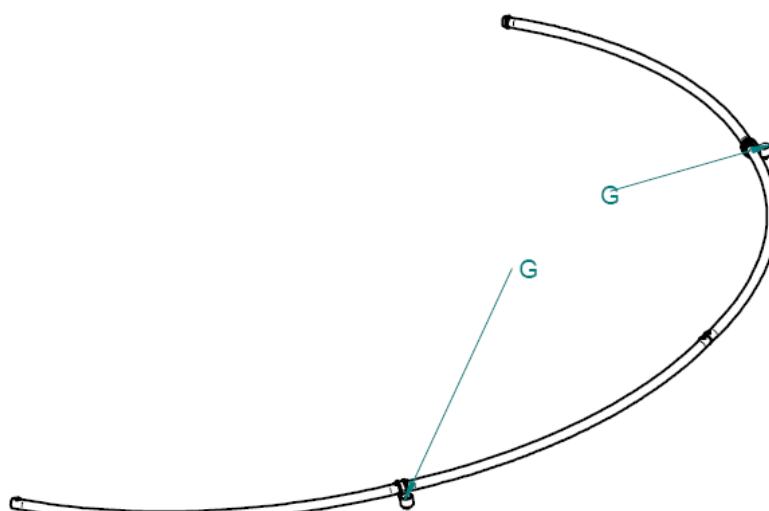


Fig. 2.

Connect the two half-arches formed this way into the peripheral circle by means of two joints. (Fig.. 3).

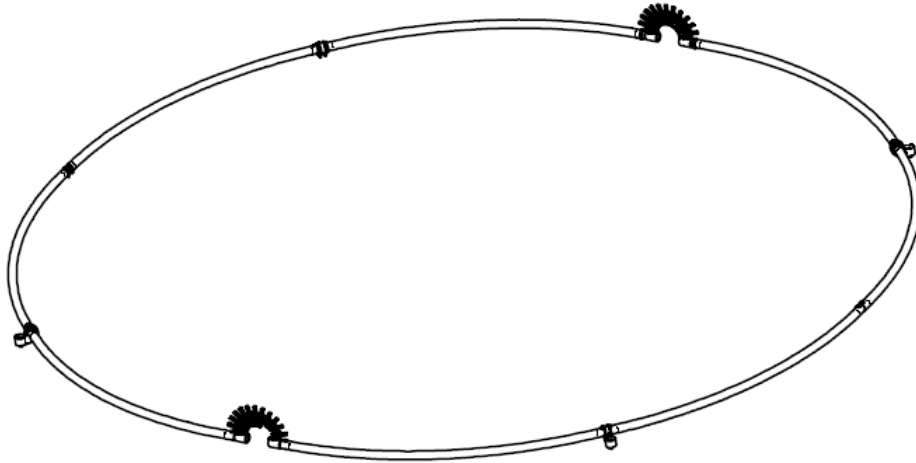


Fig. 3.

### Step 3: Assembling the central supporting arch

Fold either half-of the circle, with the canvas, over onto the other half (Fig. 4).

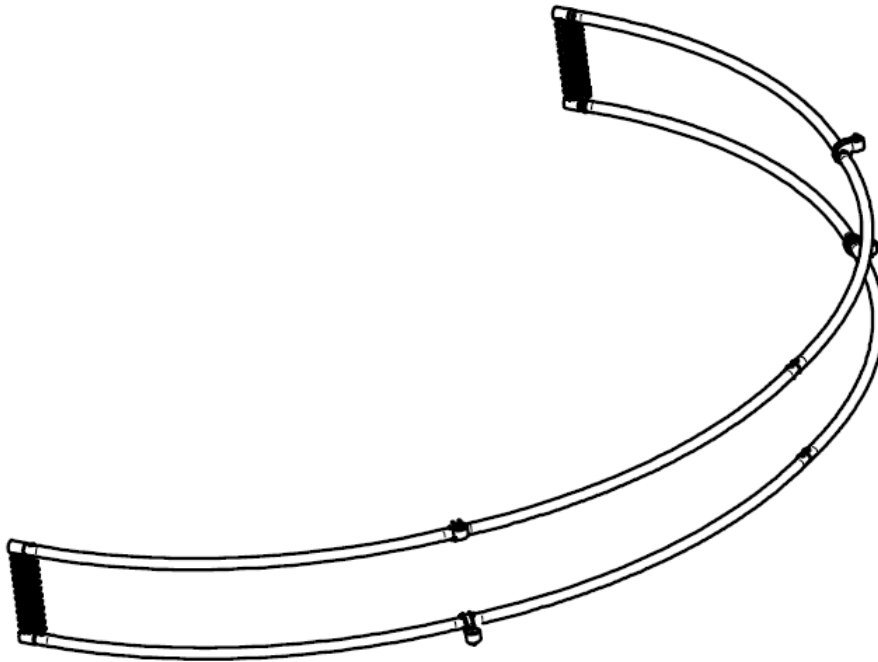


Fig. 4.

Assembly the arch from its four tubular segments (B) of  $\varnothing$  20 mm by connecting them together by means of three aluminium couplings (J), see Fig. 5..

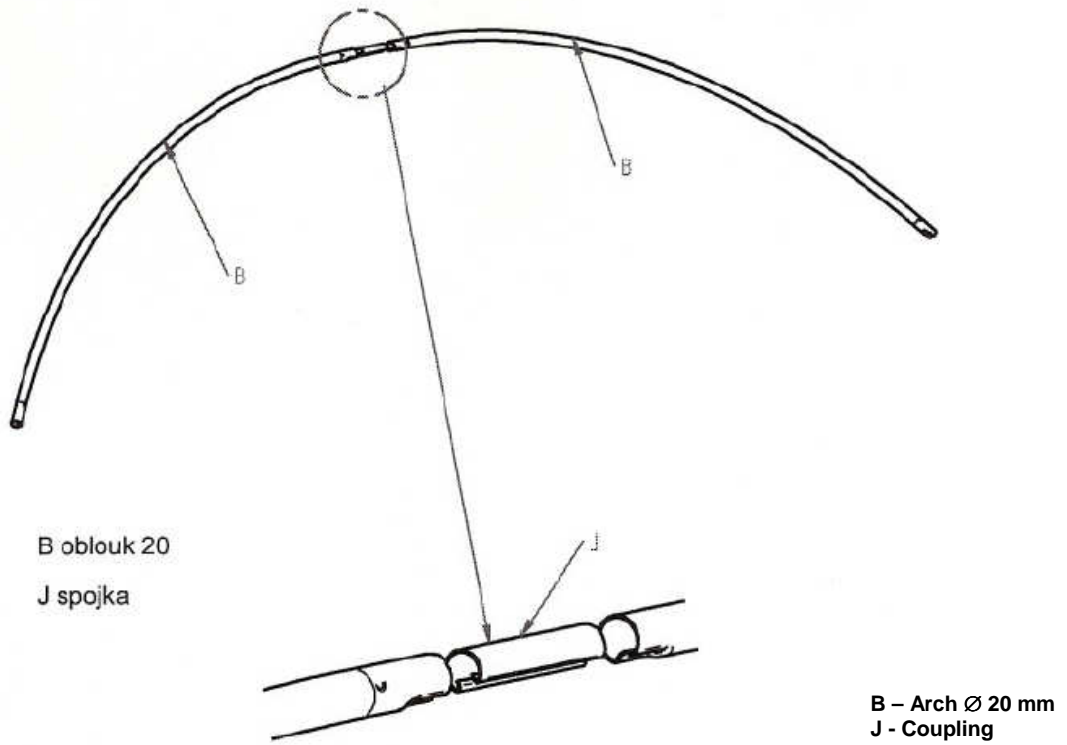


Fig. 5

Put the semicircle formed this way on the pins of the joints (Fig. 6). Attach the canvas to that semicircle by means of Velcro fasteners (see Fig. B in Part 10 – Illustrated Supplement).

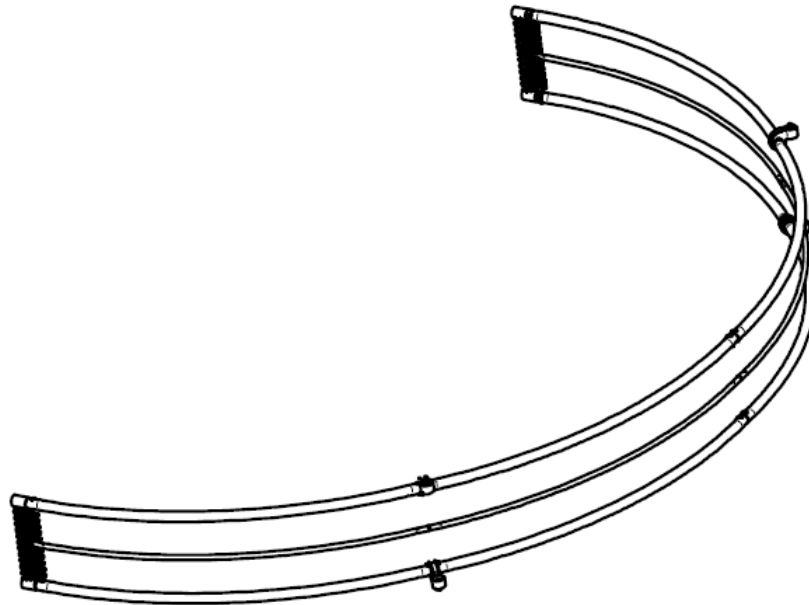


Fig. 6.

Unfold the semicircle ( $\varnothing$  40 mm) with the canvas back by  $180^\circ$  in order to create a circle on the ground (Fig. 7).

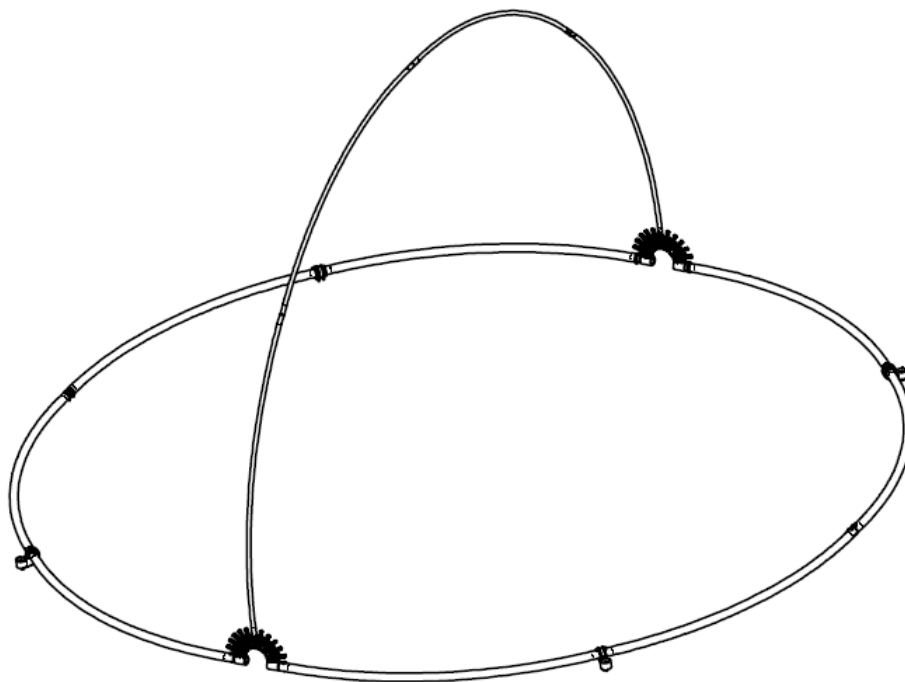


Fig. 7.

#### Step 4: Installing the supporting arches

Place the remaining arches ( $\varnothing$  20 mm) (B) and couplings (K) inside of the roofing to be made before unfolding the semicircle as described in Step 3. Then the assembly should be carried out from inside. Reeve the arches through the slings sewn on in the canvas from inside. Assemble each supporting arch from four parts using couplings (J) (Fig. 8) and, finally, stick its end into the joint with the traversing wheel (Fig. 9). In the assembly of these arches proceed from the load-bearing structure towards the canvas lower edge. After all the supporting arches (B) have been installed, the circular roofing assembly is completed (Fig. 8).

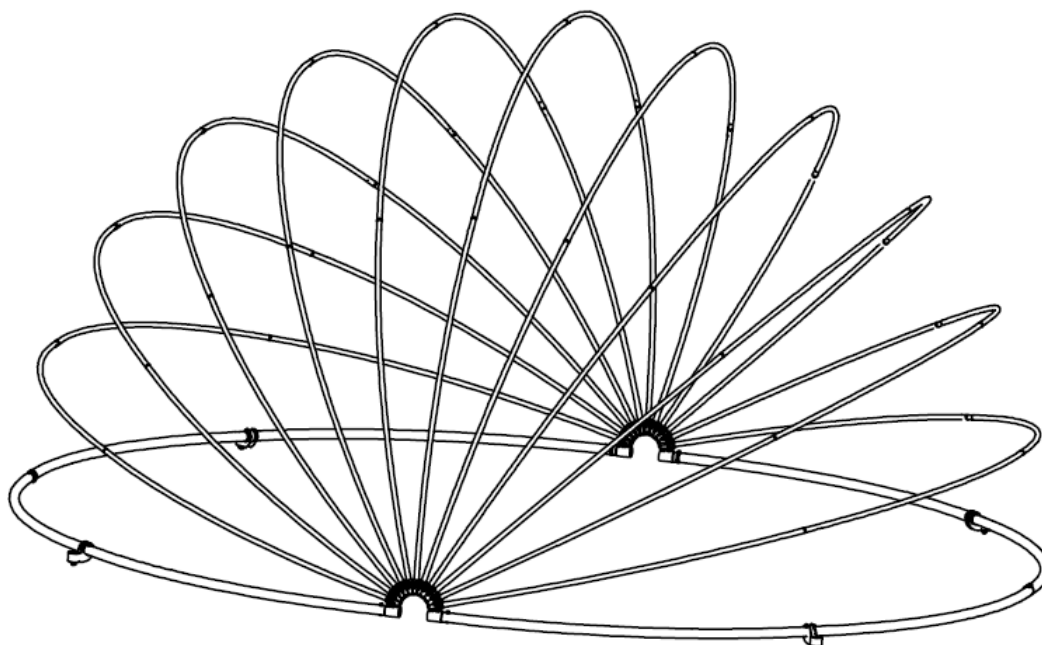


Fig. 8.



## **5. Anchoring the roofing system to resist wind**

The lower frame of the roofing, after being properly assembled, shall be provided with anchoring elements (G), see Fig. 2.

After assembling the roofing, put it on the chosen place and mark the point, in which it should be anchored in the ground.

Excavate or drill holes in the ground at the marked points. Place steel anchors in the holes and set them in concrete.

Attach the anchoring element to the anchors using the locks and in-bush wrench (see Fig. B in Part 10 – Illustrated Supplement)

## **6. Operation**

- a) Do not leave the roofing system in the open and unsecured condition while the roofed space is not in use. In such situation it should be left closed and anchored. Leaving it in the open position can be hazardous.

If the roofed space is occupied, let it open, at least, either door open to provide for free air access.

After leaving the roofed space, close and secure it against wind by anchors.

If required, the roofing system can be detached from its anchoring elements and carried away.

Before leaving the roofing make always sure that it is properly closed and anchored in the ground.

## **7. Safety rules**

- Use the roofing only for the purpose, which it is intended for, i.e. to roof a swimming pool,.
- This roofing does not constitute any safety system preventing any persons or animals from accessing the pool area. Both the roofing manufacturer and seller shall not be responsible for any personal injury or damage to property if this warning has not been taken into account.
- The assembled roofing must be firmly anchored in the ground by means of anchors provided (see Chapter 5 hereof).
- At the time of bathing in the roofed pool the roofing door should be left open, otherwise the temperature in the roofed space could increase to a relatively high level, which could cause health problems to certain persons staying in the roofed area.
- It is strictly forbidden to use any source of open flame in the roofed area because the risk of fire.
- Do not let the roofing open, if the pool is not in use or if left unattended.
- In windy weather it is essential to keep the roofing in its closed and secured condition.
- It is extremely hazardous to leave the roofing open at its one side, when air has no way out and can destroy the roofing, with the resulting risk of damage to property or personal injury.
- It is forbidden to open the roofing in strong winds. It could be very hazardous.
- Do not load the parts of the roofing structure excessively. Do not suspend any items on the structure. The roofing structure is not designed to stand any movement of persons on it, climbing, etc., and could collapse.

## **8. Maintenance**

Covering materials should be kept clean. Lukewarm water and mild detergent should be used for the purpose. Any use of cleaning agents containing/releasing chlorine should be avoided.

It is recommended to lubricate the rotational parts (joints, wheel pins, etc.) with silicone lubricant both before the start and after the end of the season.

If the roofing is left outdoor in winter, snow, if any, should be regularly removed from the roofing to protect its structure from overloading.

Do not handle the roofing element in winter, as its plastic materials get brittle and become more liable to damage at low temperatures.

If it is intended to store the roofing for the winter period, it should be carefully disassembled and stored in a dry cold place to protect it from damage.

The manufacturer shall not be responsible for any possible damage caused by any non-observance of the instructions contained herein.

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## **9. Warranty, service, spare parts**

The conditions of granted warranty are specified in the warranty certificate of the seller. Direct, please, any your questions and requests for service and spare parts to your supplier of this product.

It is highly recommended to employ only the genuine spare parts for any repair/maintenance of the product.

## **10. Illustrated Supplement**



Fig. A: Fastening the canvas to arches using Velcro fasteners

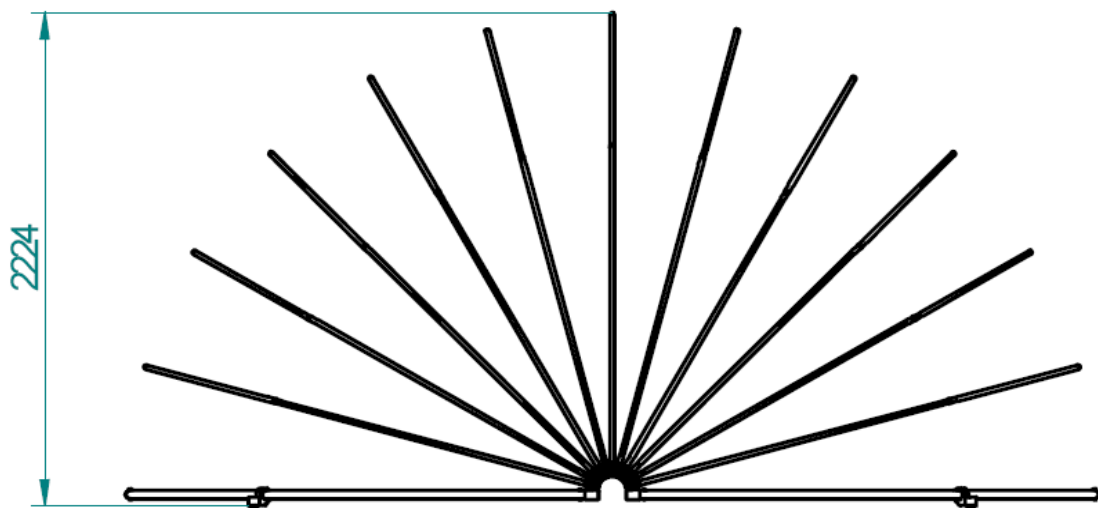
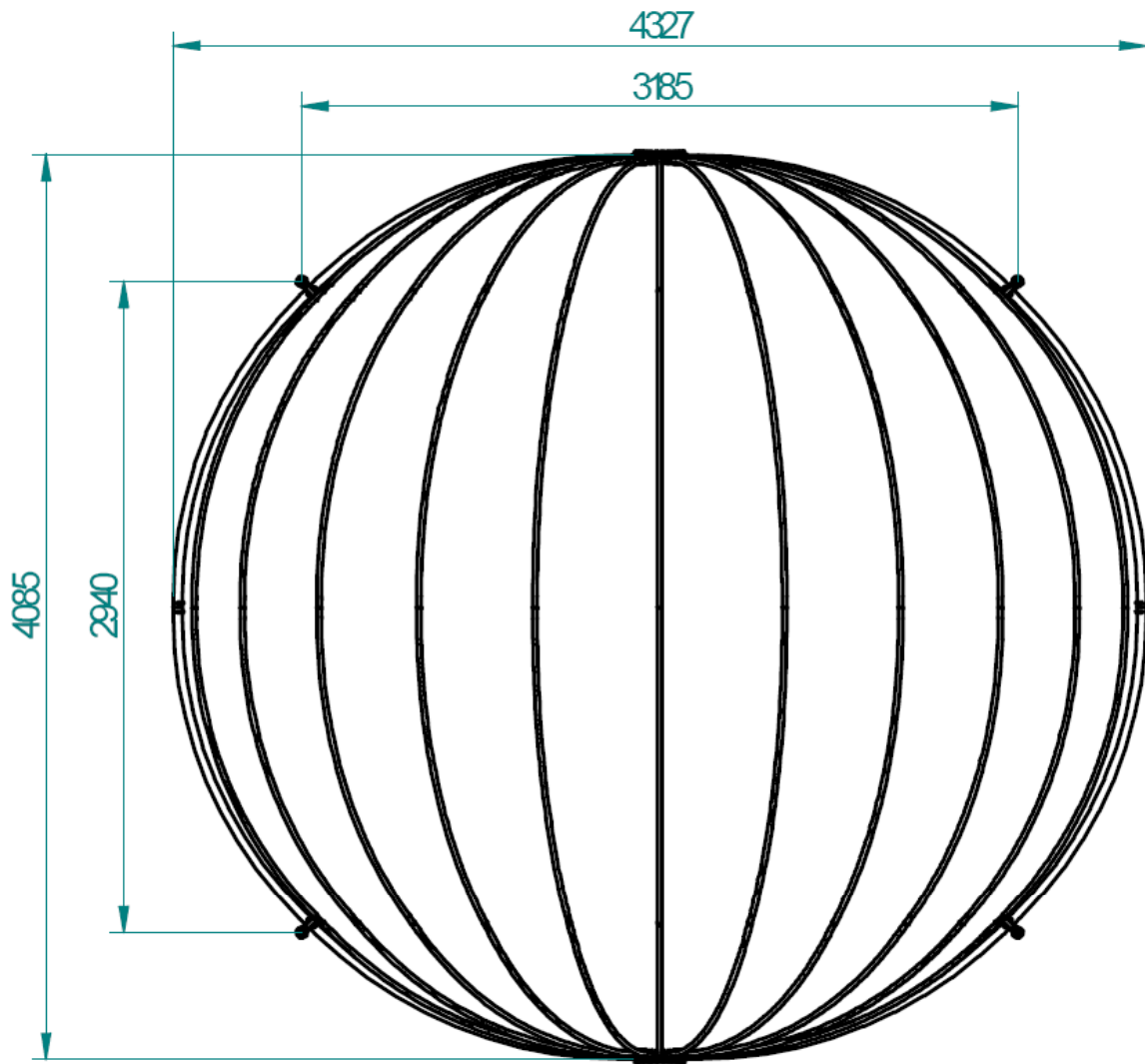


Fig. B: Roofing anchor system – from the left: Anchor to be set in concrete, foam pad, plastic part of the anchor, in-bush wrench

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# 11. . Indicative dimensions of the circular roofing and the layout of anchors

Frame type: AZURO CIRCLE 4,1 m



Frame type: AZURO CIRCLE 4,9 m

