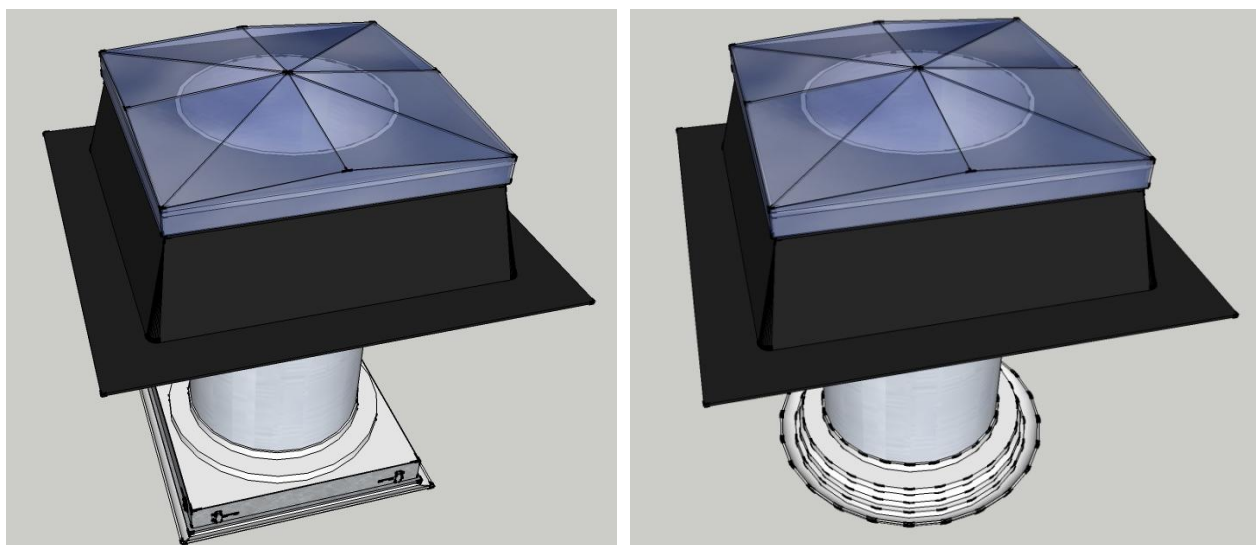


Installation instruction for

SUNIZER™

Flat roof



WWW.SUNIZER.CZ

Important notices:

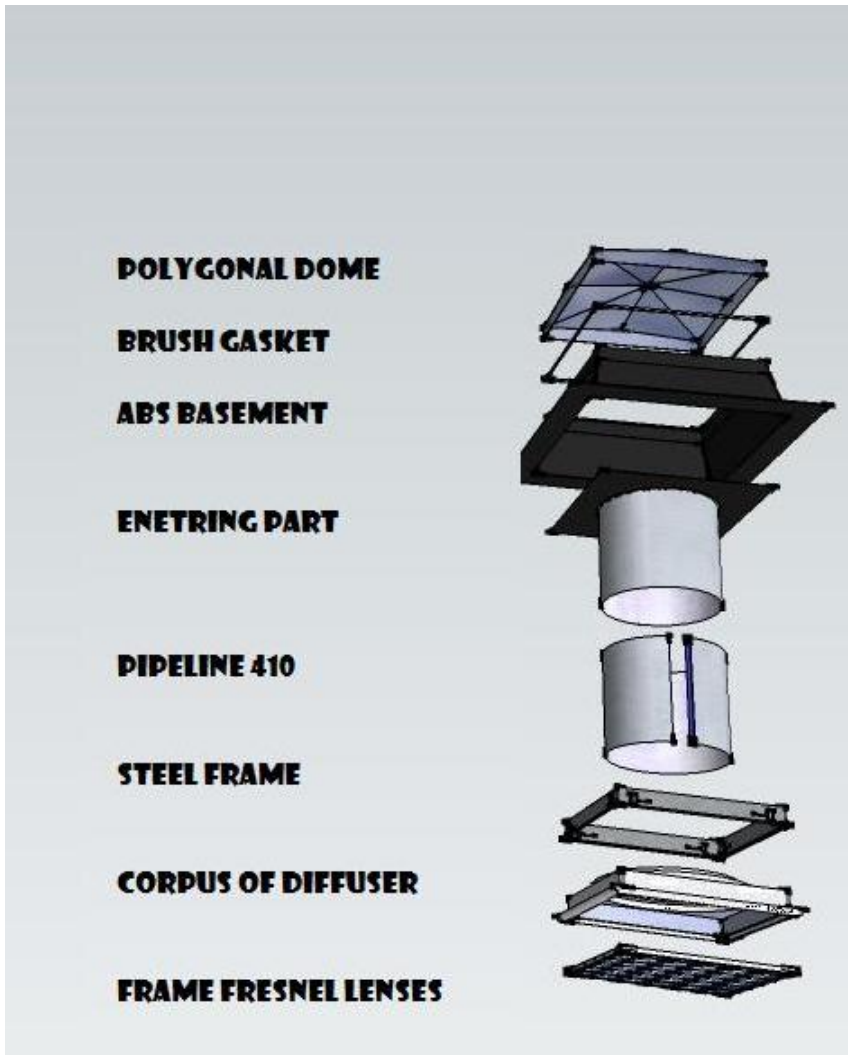
The tube of the Skylights contains technical silver which is varnished. During the montage is important to avoid contact with superreflective surface. It also can not be mechanically not even chemically cleaned. Main part of the tubus is produced from Aluminium sheet, which corrode in contact with substances including cement. Entrust the installation a specialist! On product are sharp edges and includes small parts – Avert contact with children. Installation of the electrical accessories entrust a specialist with competence in the field of electro.

To use the warranty is needed to follow the installation instruction. Actualization and instruction in full extent can be found on <http://www.abcweb.cz/ke-stazeni/p163>

Warranty on Sunizer: System 10 years
Reflectivity of the tubus 25 years
Elektrical components 2 years

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SUNIZER – set of basic components for flat roof



Note: set with round diffuser doesn't include a steel frame

Parts of the basic sets:



Screw SDK big
tape

Screw SDK small

Screw with rubber gasket big

Screw with rubber gasket small (only for polygonal domes)

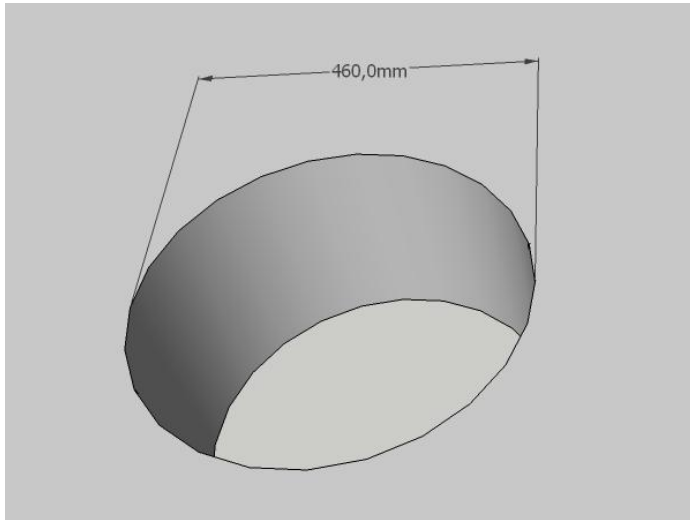
Screw with pad

Screw TEX

Aluminium

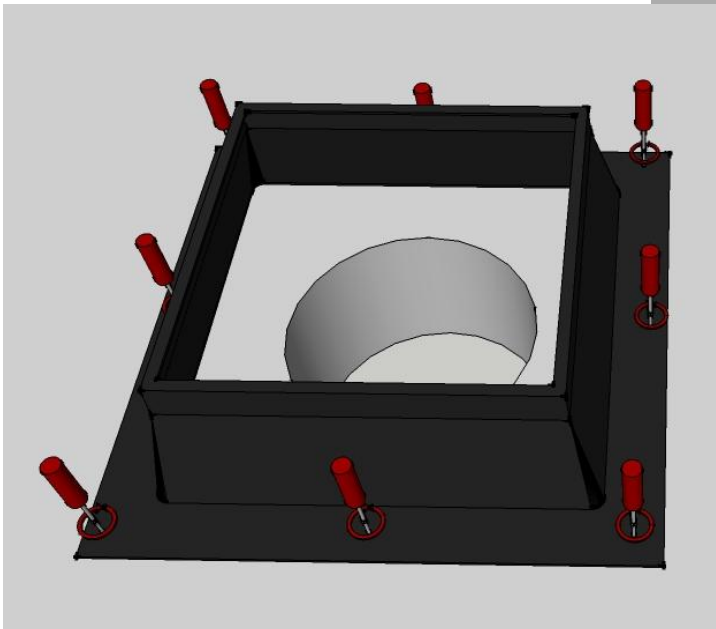
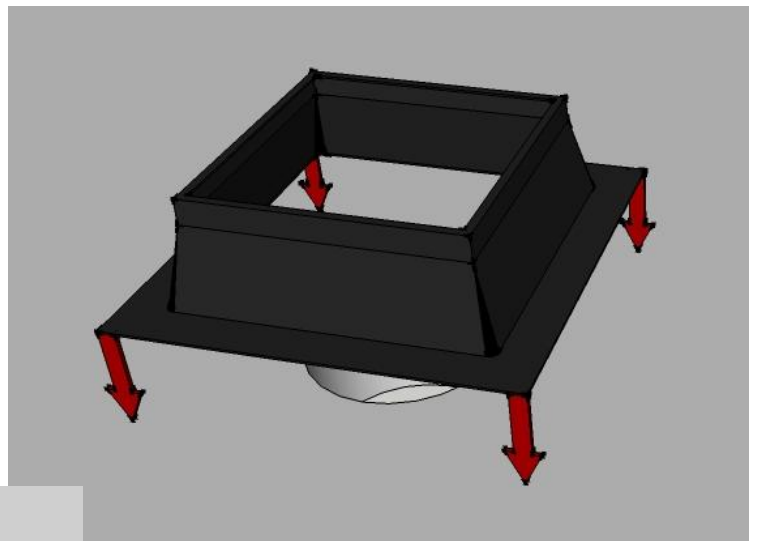


Installation of the roof base



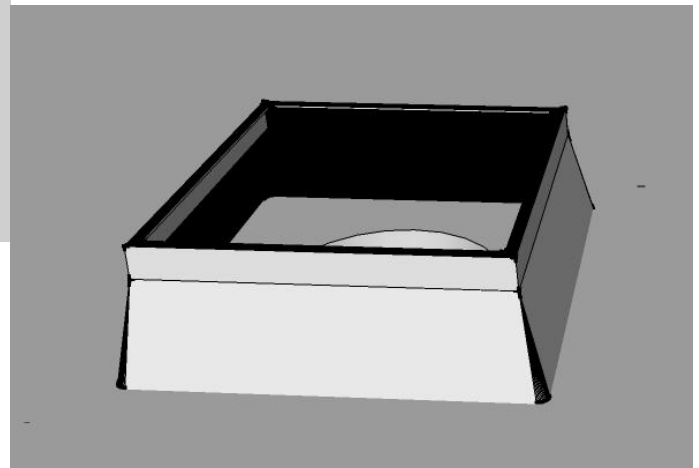
Create a hole in the roof in the place of Sunizer location. Count the size of the holes for Sunizer according following:
Diameter of the pipelines + 2 cm + 2x used thermo isolation.
E.g. $430+20+(2\times 100)=650$ mm.

Put the basement on the centre of the hole.

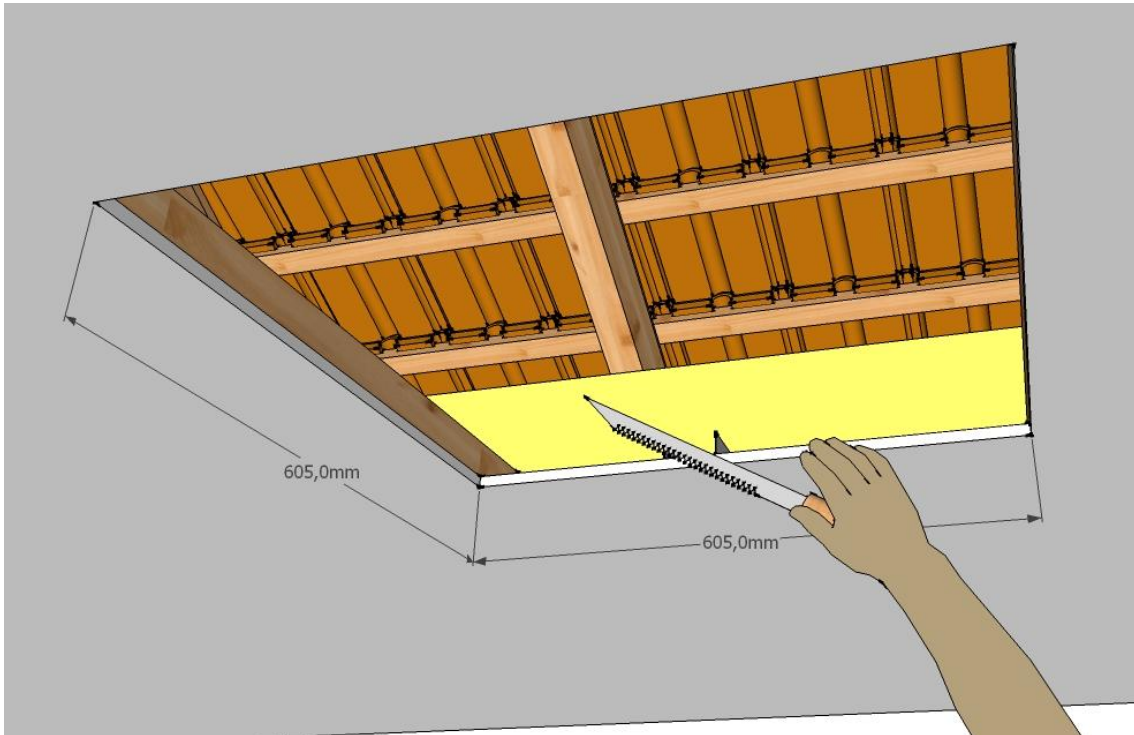


Depending on the type of roofing screw the basement according the need and possibility to supporting base.

The basement isolate by hydroizolation to upper edge. Fill by thermal isolation the whole space in the basement. Let the place only for the tubus.



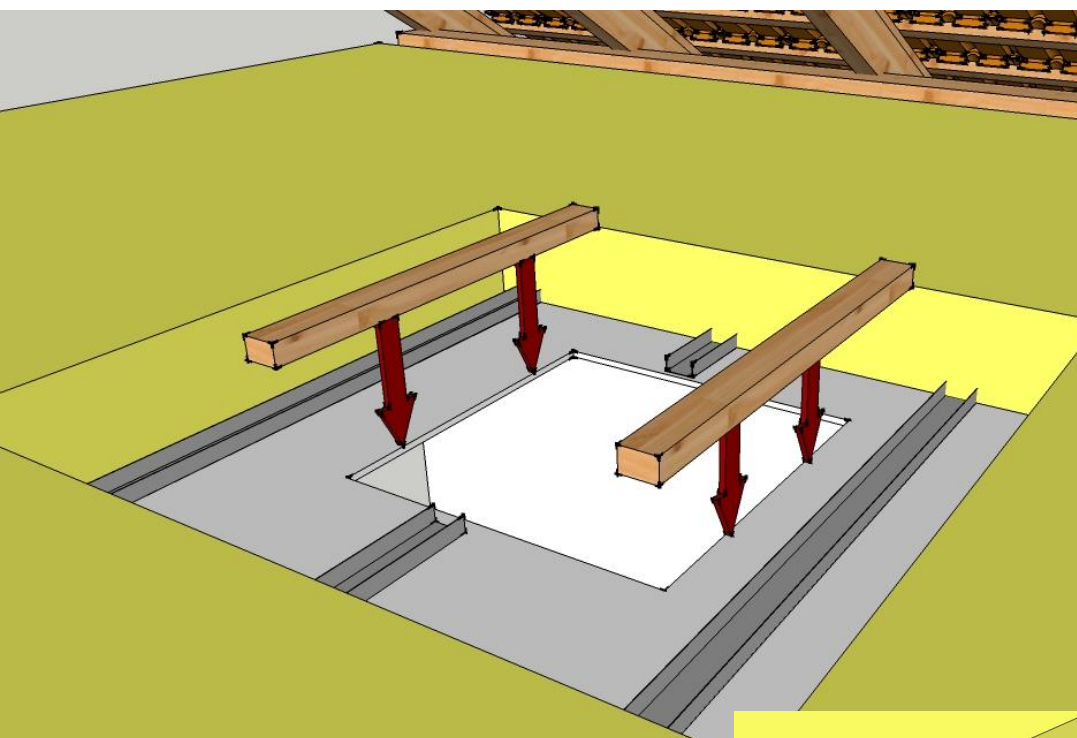
Installation of the square diffuser



The installation perform into prepared ceiling.

Create a hole in the ceiling in the size 605x605 mm. Care about squareness of the corners.

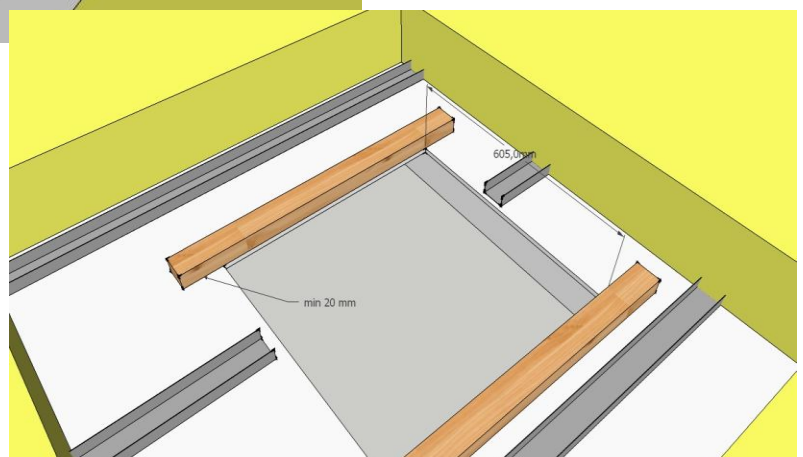
If it is necessary to break carrying profile SDK, solve the problem with expert for plasterboards.



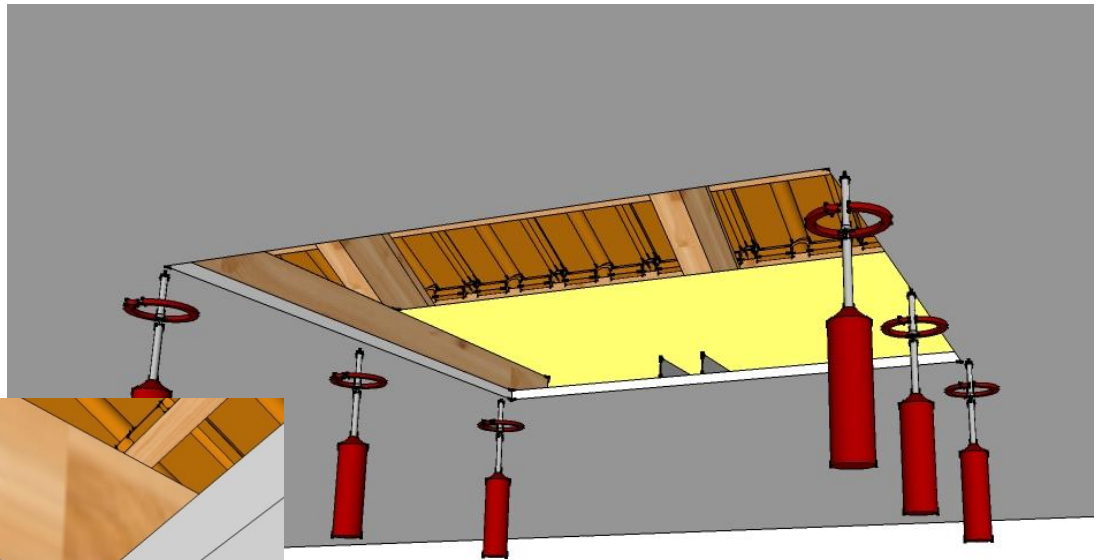
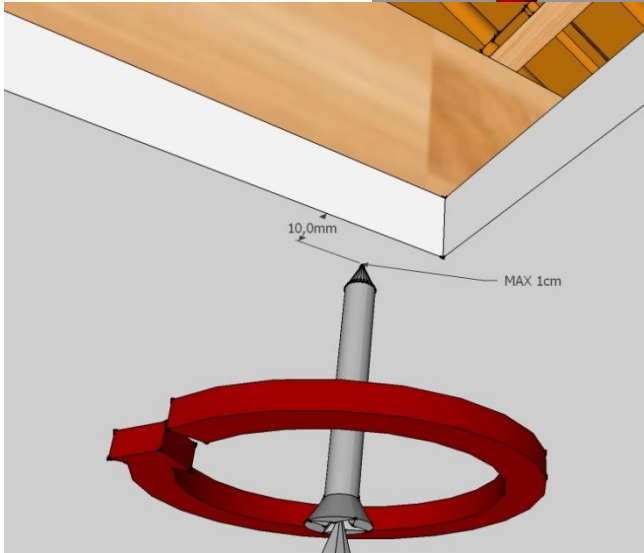
Put the laths or UD profiles under the ceiling (this is not part of delivery).

In the case of installation into concrete ceiling don't use the laths. Anchor it by wall plugs.

Take care of sufficient overlapping in corners at least 20 millimeters.

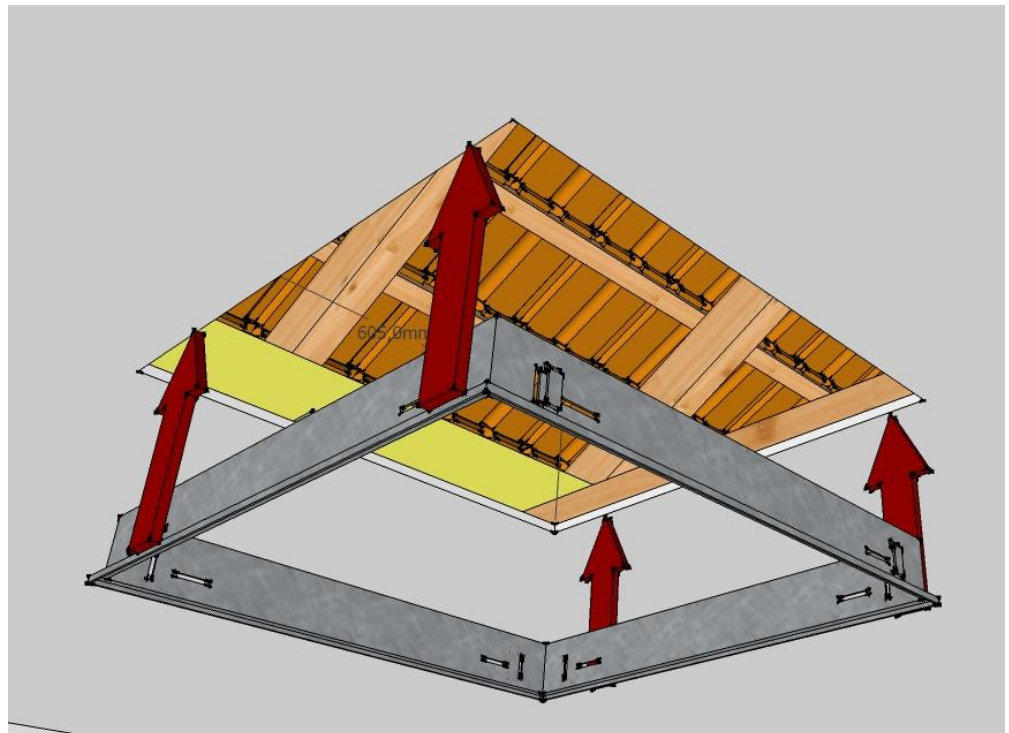


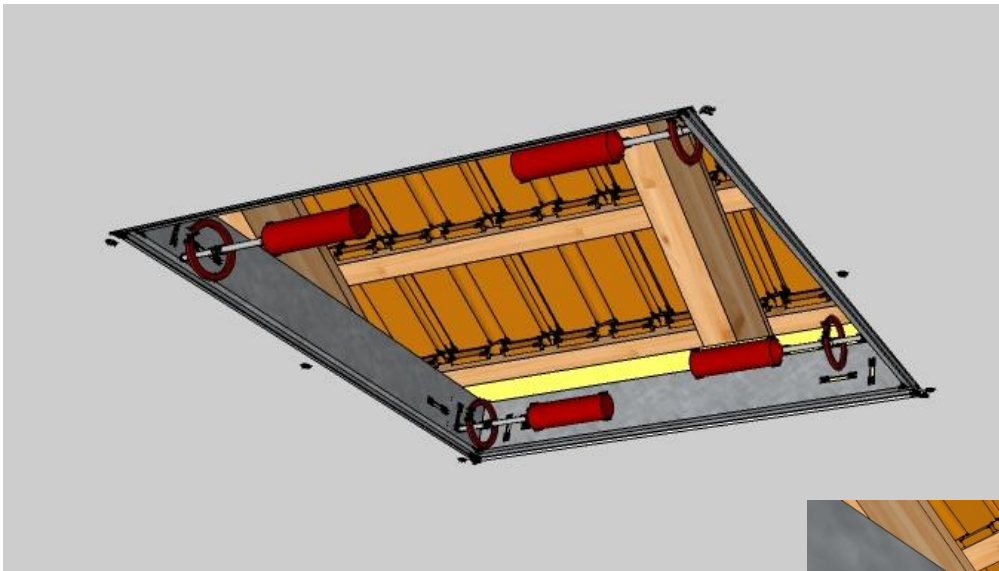
Attach lats or UD profile by 6 pcs of screws into SDK according the picture



Place the screws 1-1,5 cm from the edge.

Put the steel frame into prepared hole.

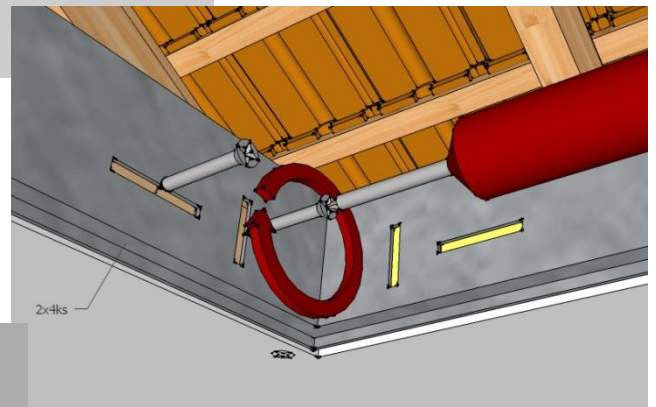




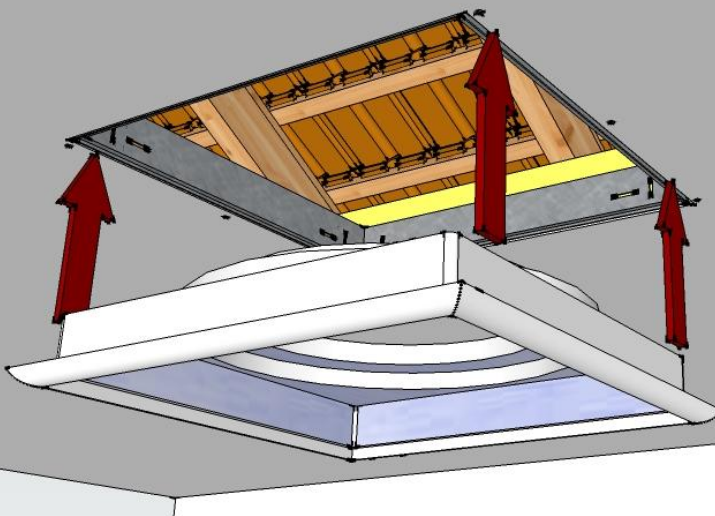
Attache the frame by 8 pcs of long screw SDK to lath or UD profile.

In the case of concrete ceilings do the anchoring by wall plugs.

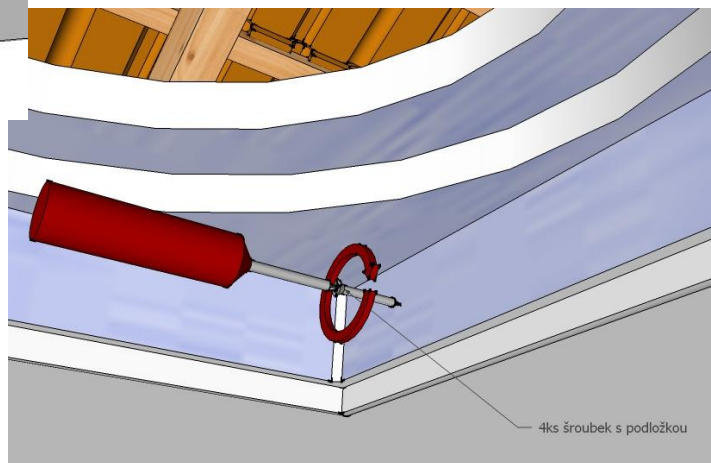
Screw it into the height-adjustable holes (according the picture). It is important to lower edge of the frame was in same level as the edge of hole.



Put into the steel frame diffuser's corpus.

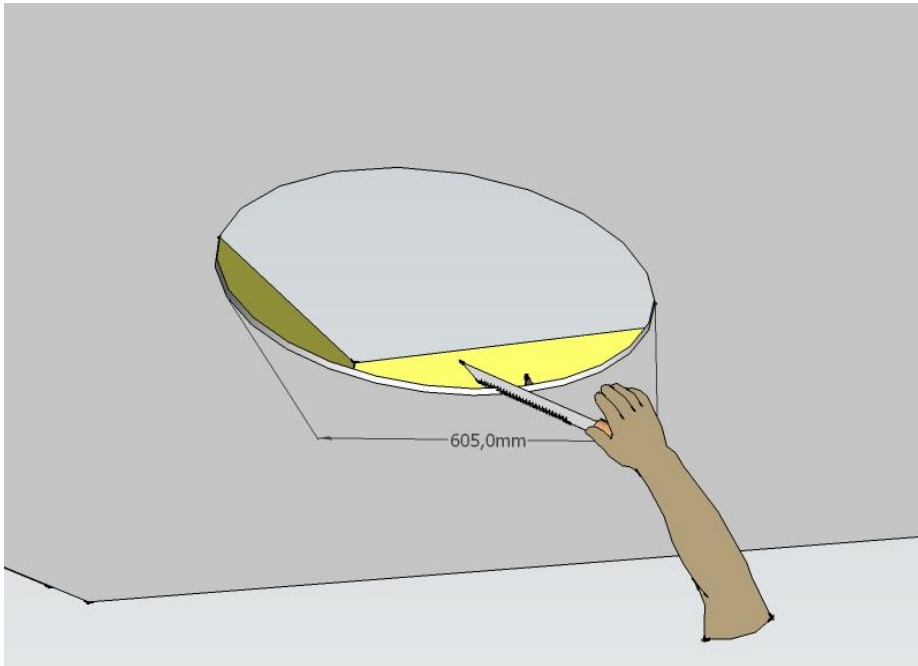


Screw the corpus into the prepared holes by 4 pcs of screws with pad.



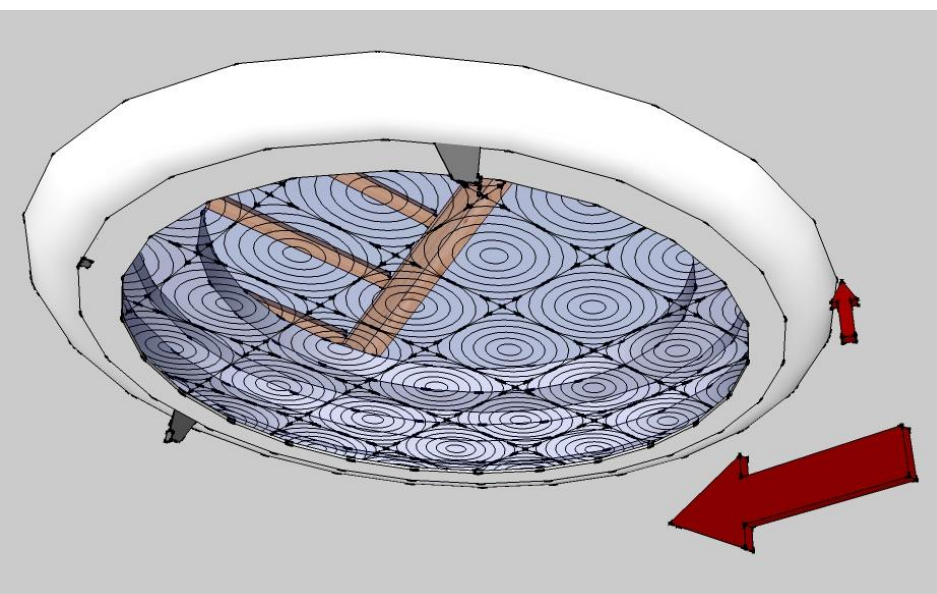
Before the tighten of the screws press the corpus in the up direction.

Installation of round diffuser



The installation is carried out into the prepared ceiling. Create in the ceiling round hole .
For the Sunizer 230 and 330 – 405mm.
For Sunizer 430 and 530 – 605mm.

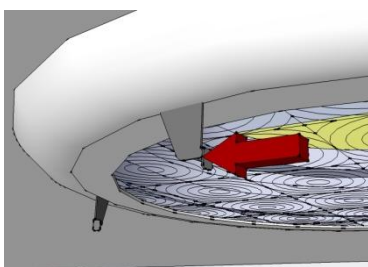
If is necessary to break carving profile SDK, solve the problem with expert for plasterboards.



Turn the diffuser around to it doesn't spoil the spatial impression. The most suitable is to direct the lenses parallel to closest wall according the big arrow.

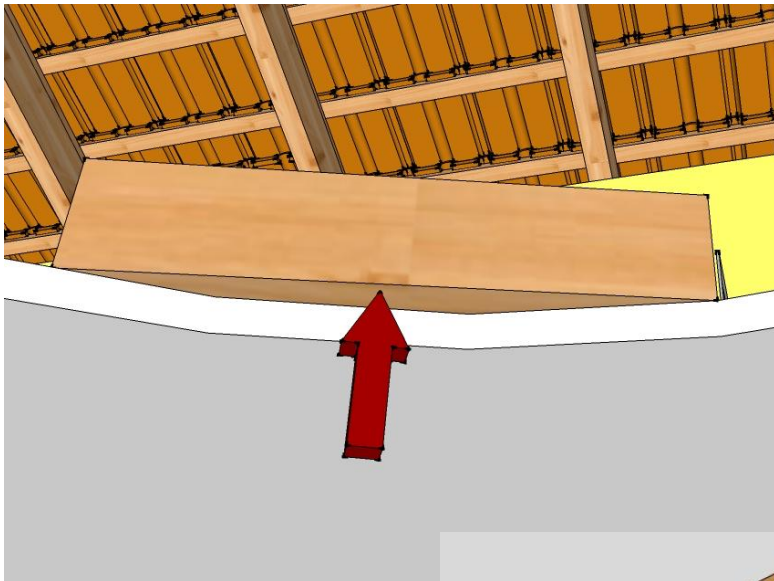
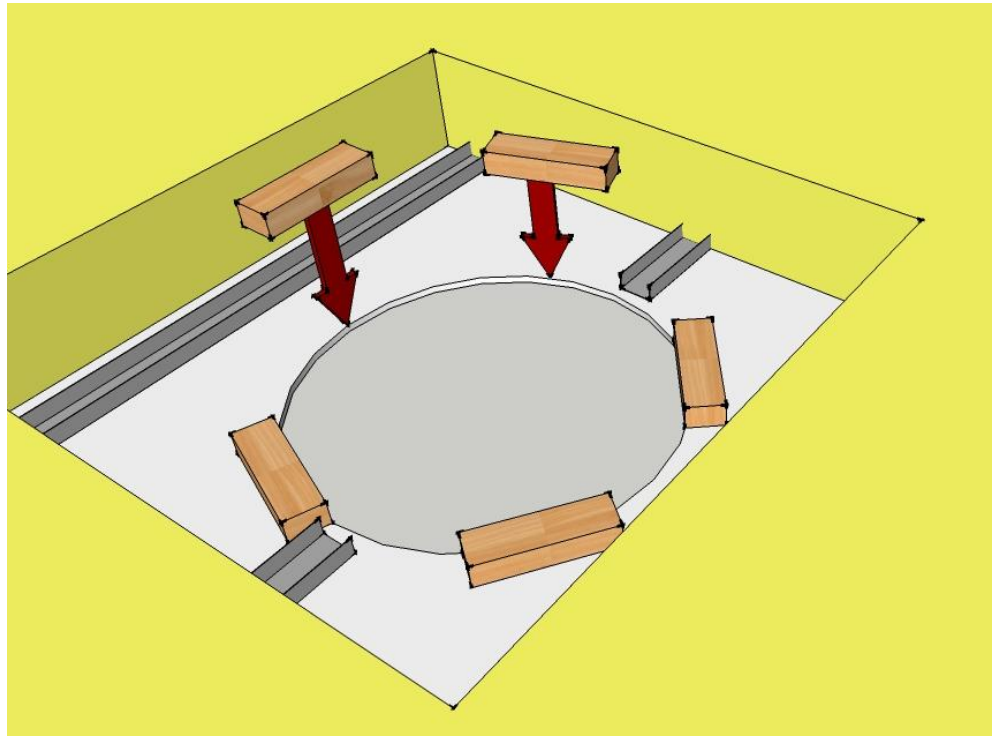
Create by a pencil marks on diffuser and ceiling according the small arrow. Other marks create in the point of pre-drilled holes for anchoring of the corpus to the laths.

Take the Fresnel lenses out of the corpus by locks.



Put the laths above the ceiling in the length 200 mm according the picture.
For Sunizer 230 and 330 – 3pcs.
For Sunizer 430 and 530 – 5pcs.
(this is not part of delivery)

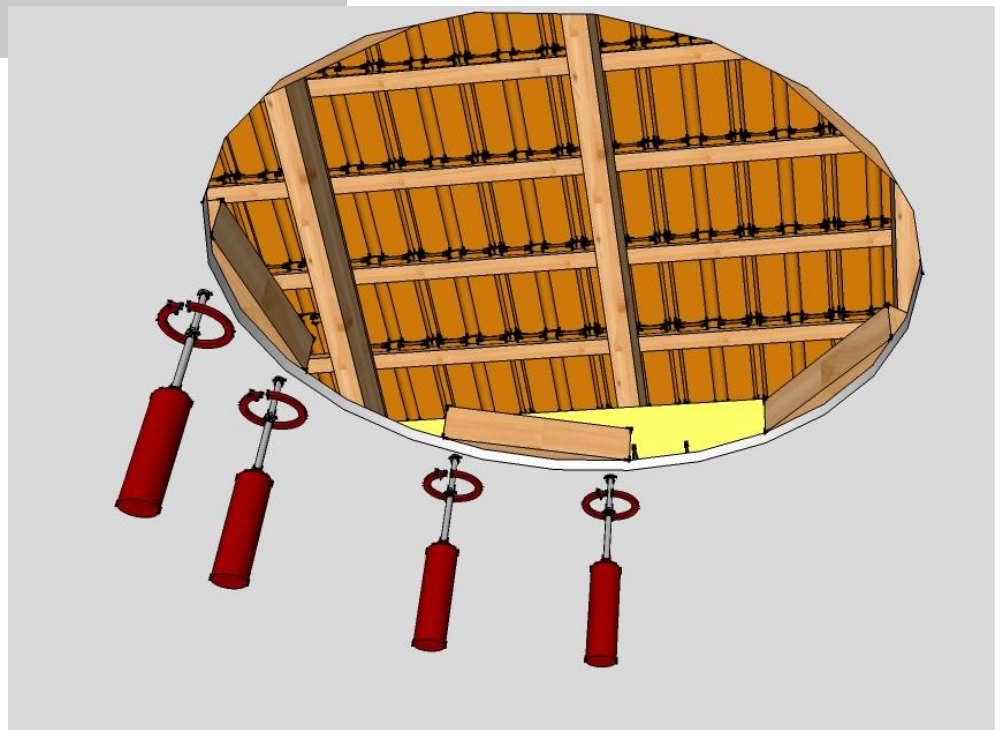
In the case of concrete ceiling don't put he laths.



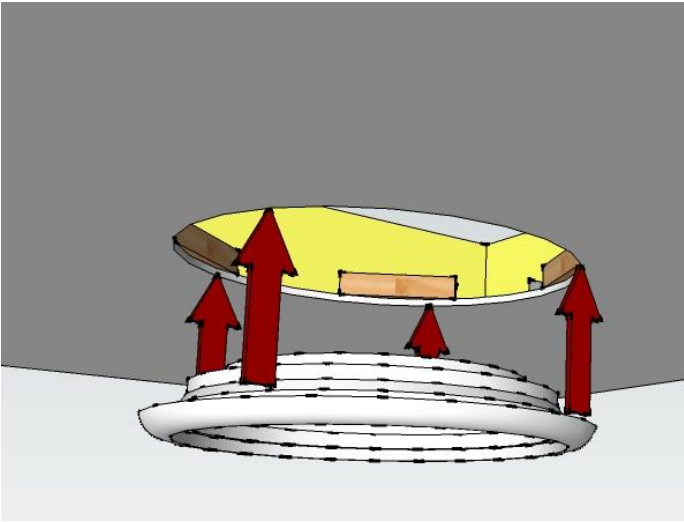
The centre of the lath had to stick out 15 mm.

Attache every lath by 2 pcs of small screw SDK according the picture.

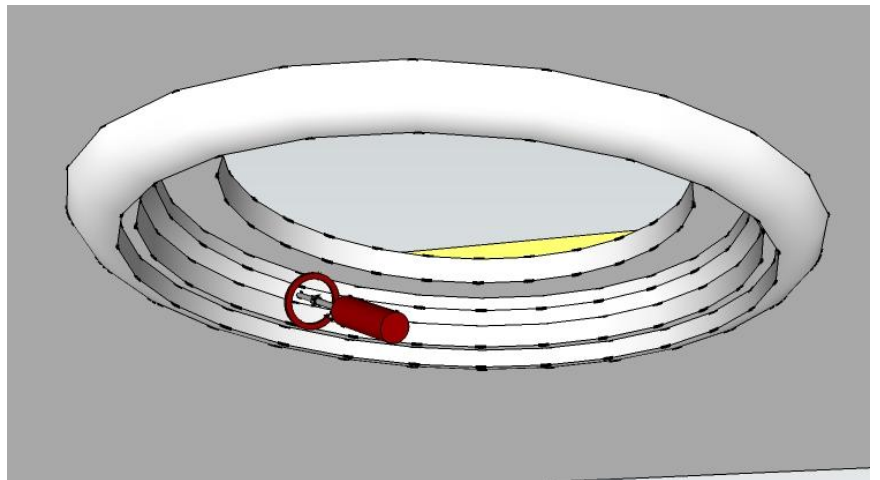
Place the screws 10-15 mm from the edge of SDK.



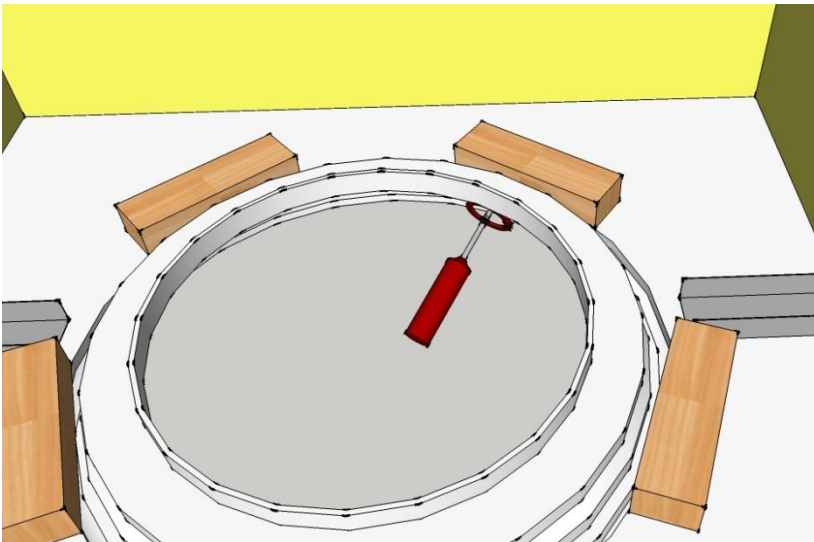
Put the corpus of the diffuser with Fresnel lenses into the hole.



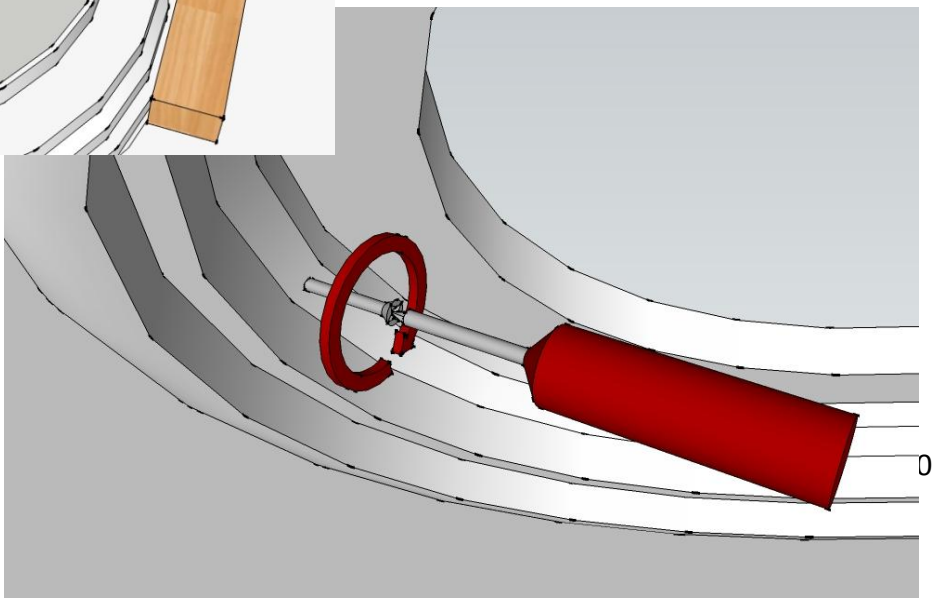
Screw the plastic corpus by the screws with rubber gasket to the laths according to the pictures. Care about the connection of the created marks.



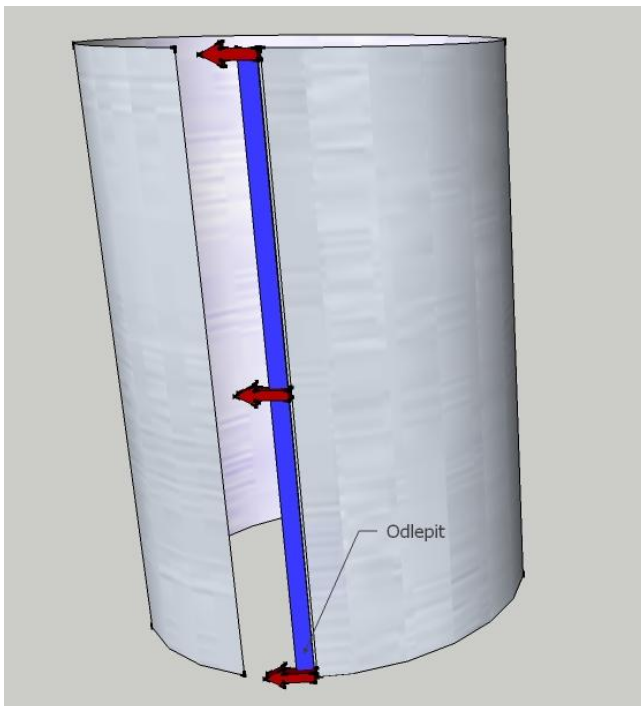
Put into the every lath 1 pc of screw.



Screw into the angle 45° the crossing according to the picture into the prepared holes.

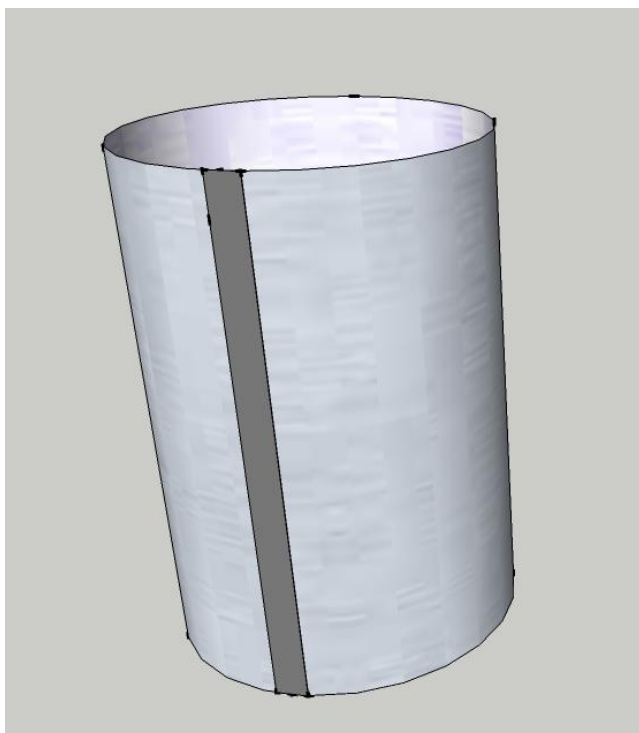


Preparation of the pipeline



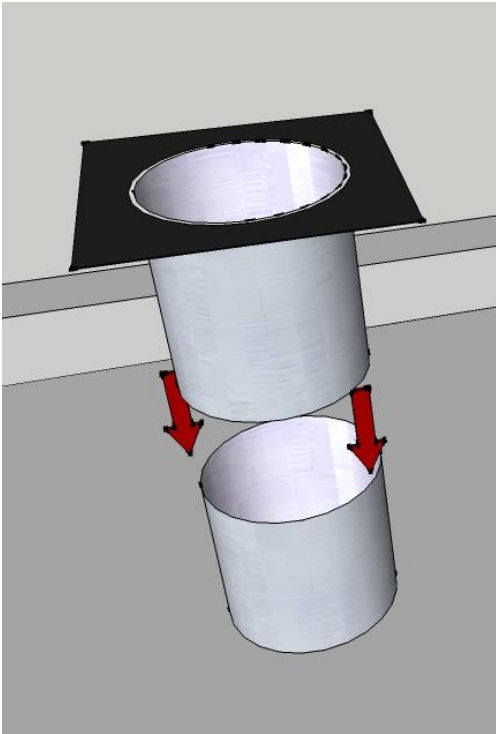
Partly remove the protection foil from the inner edge of tubus.

Remove the protection tape (on the picture in blue color) and connect the both edges together.



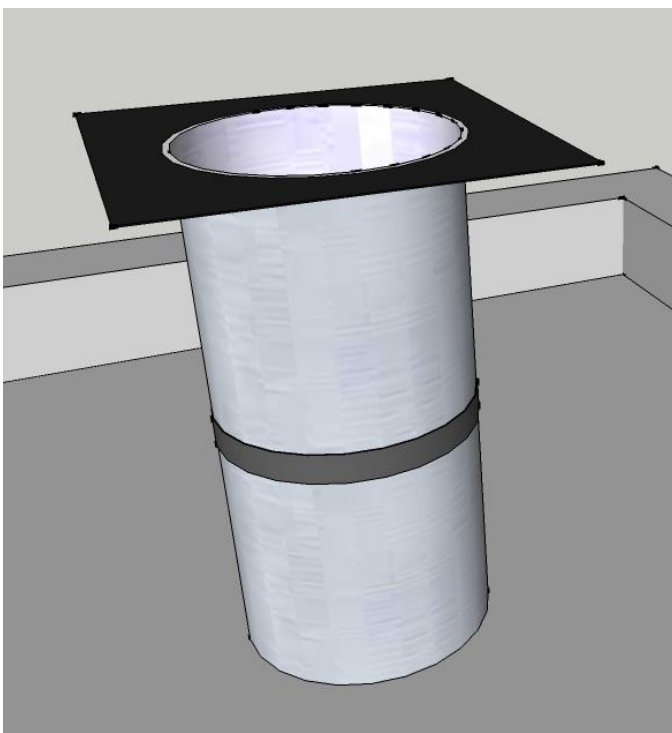
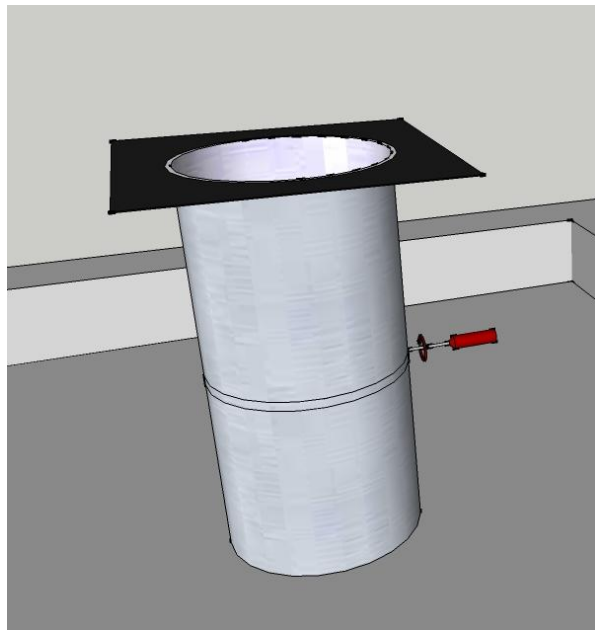
Plaster the joint by aluminium tape.

Installation of the pipeline



Before the installation remove the protection foil from the transition part of tubus carefully.
Insert the extension parts of tubus into itself approximately 20 mm.

Every joint screw by minimally 2 pcs of TEX screw.



Plaster the joints by aluminium tape.

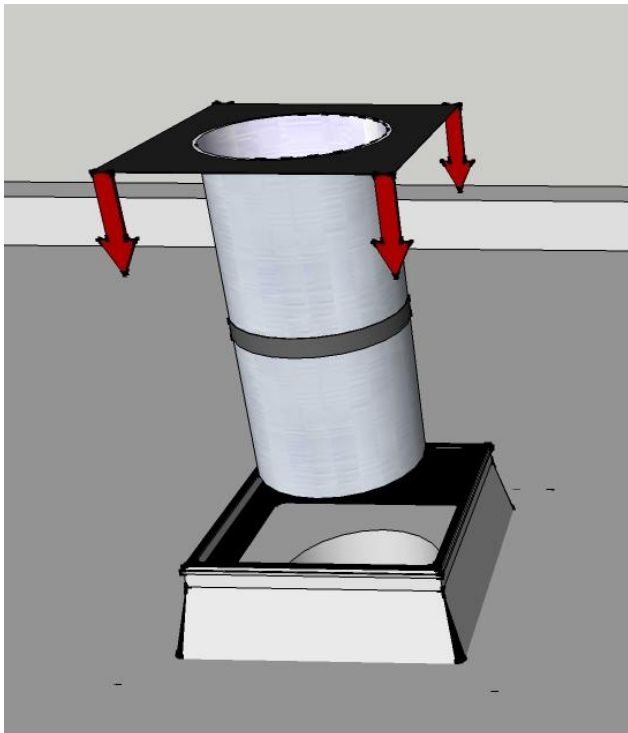
Wrap the tubus by thermo izulation.

Measure the length of the tubus up to the corpus of the diffuser.

Shorten the overlapping.

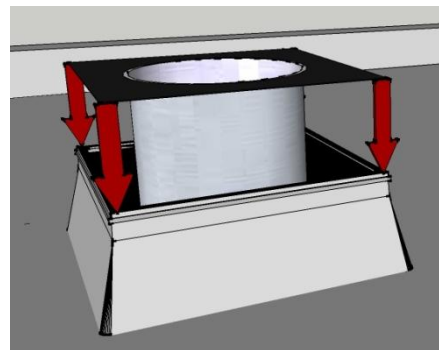
The shortening can be done e.g. by the pliers (Midwest FTCMP1) or by sharp knife.

Installation of the entering components

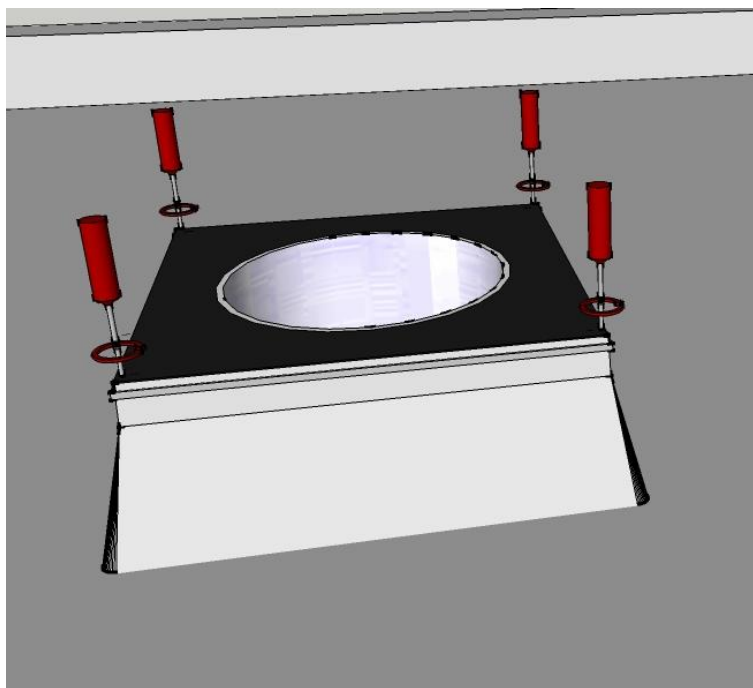


Insert the prepared entering part into the basement.

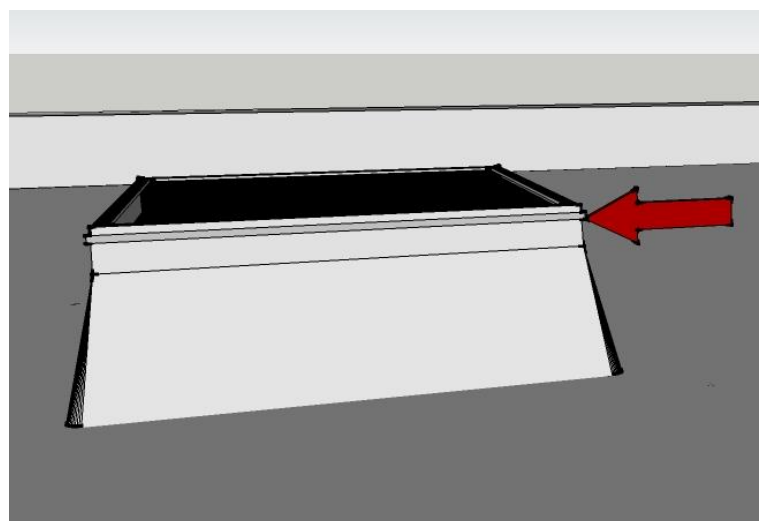
Remove the protective layer from the adhesive tape which is placed from the lower side of the plastic part. Stick the part to the basement.

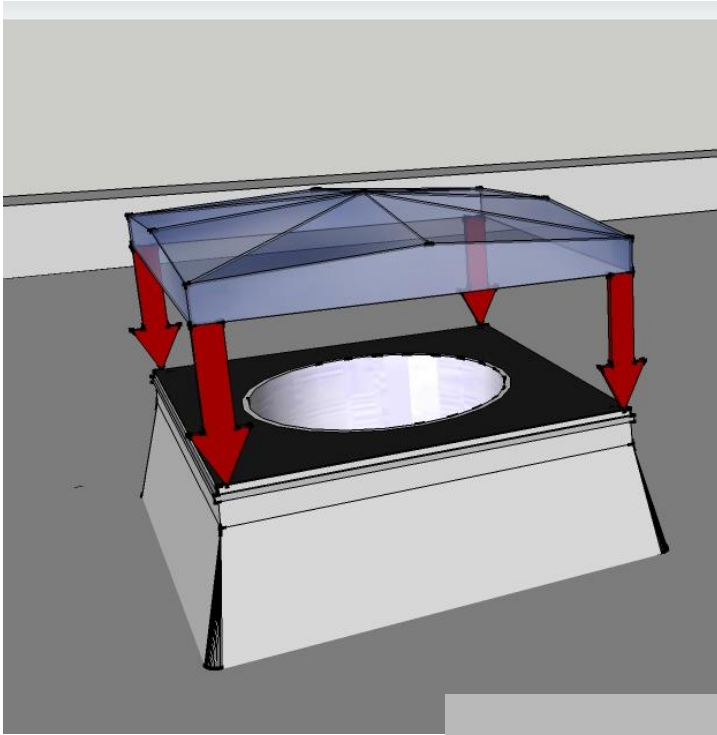


Screw the entering part by screwdriver to the basement.



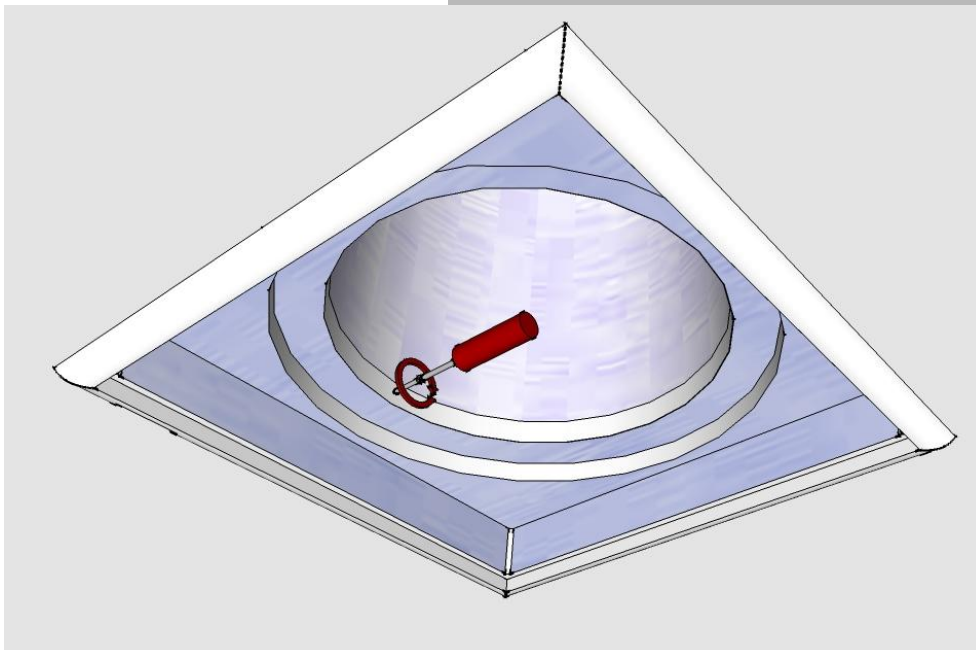
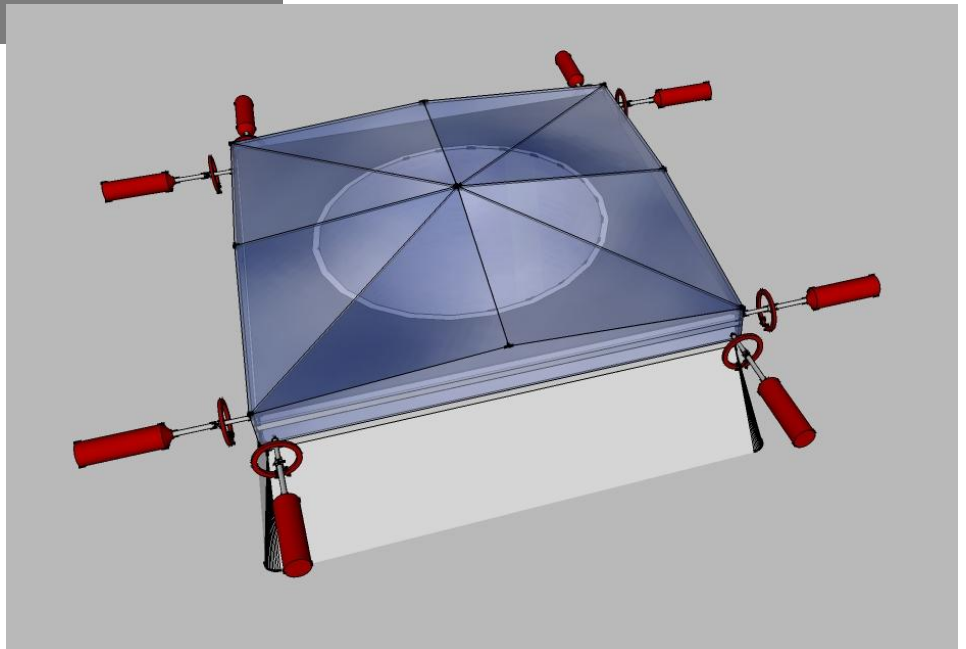
Stick the brush seal 1 cm under the edge of the basement (according the picture).



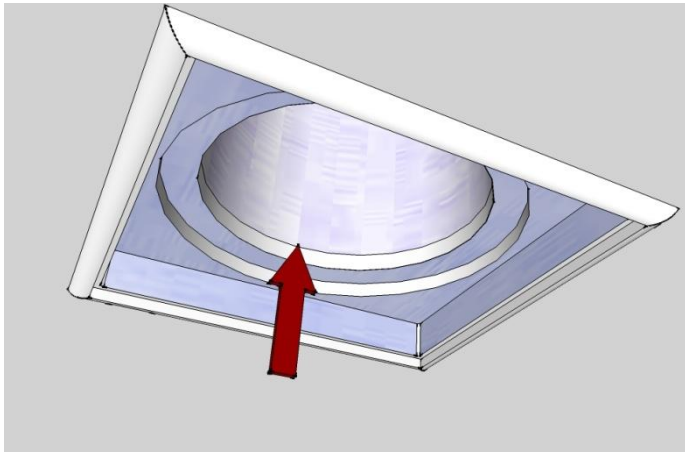


Slide the polygonal dome on the basement over the brush seal.

Screw the polygonal dome by short screws with rubber pad according the predrilled holes. Together 8 pcs.



Screw the last pipeline to diffuser by 3-4 pcs of TEX screws.

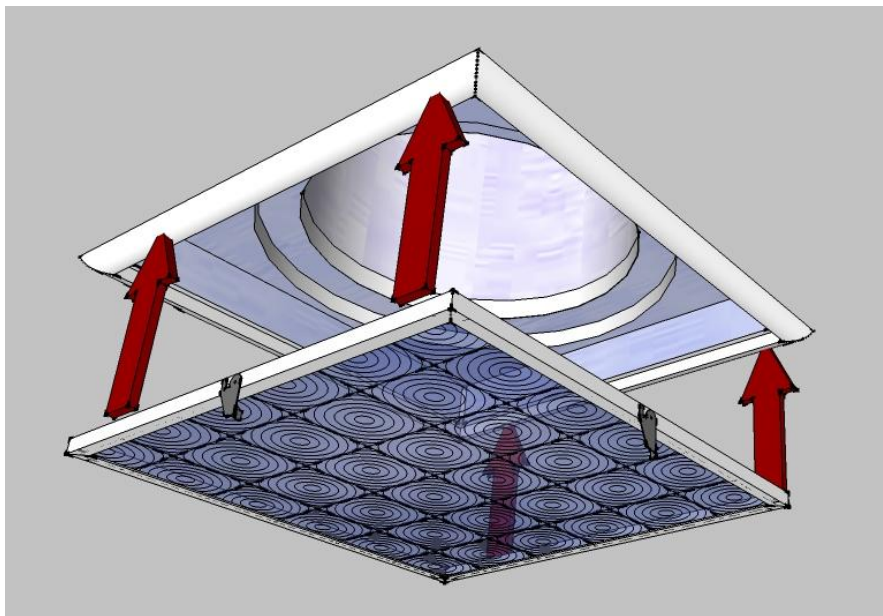


For sealing of the pipeline with tubus apply the silicone around the perimeter between corpus and tubus according the arrow on the picture.

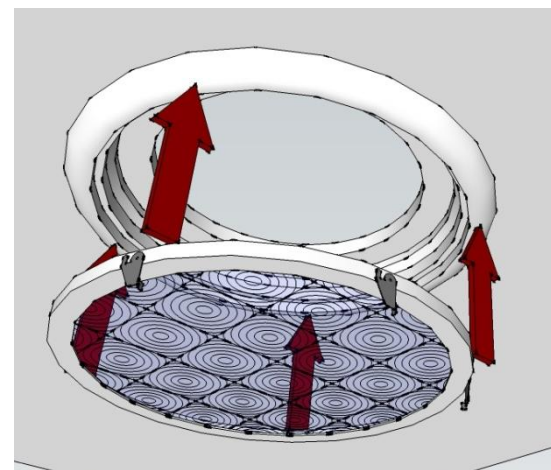
Finishing work

Steam –tight layer connect according your change on plastic corpus or on perfectly seal tubus!!

If the tubus goes throught not heated space, it has to get the thermal isolation. The thermal isolation has to have minimally $\frac{1}{2}$ of the thickness of the thermal isolation which was used in the ceilings!!!

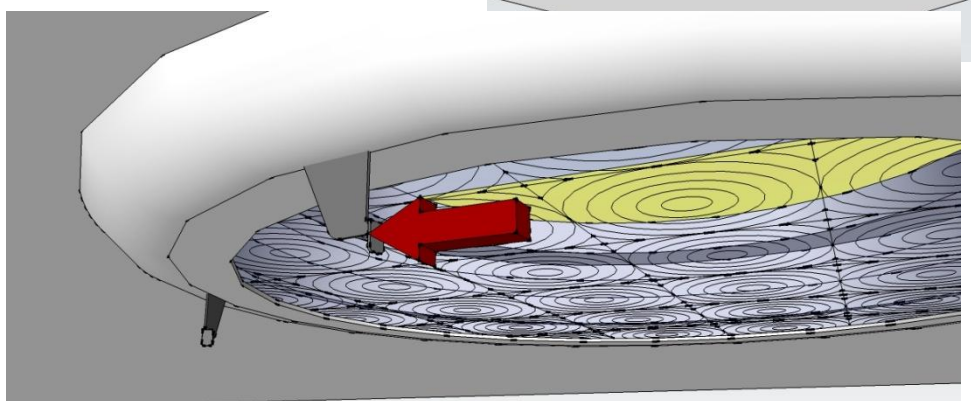


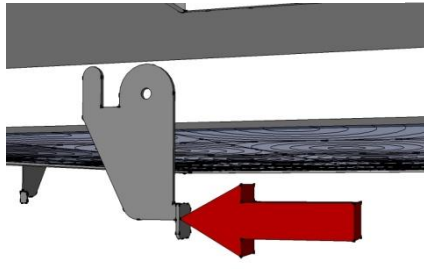
Close the Sunizer by the frame with fresnel lenses.



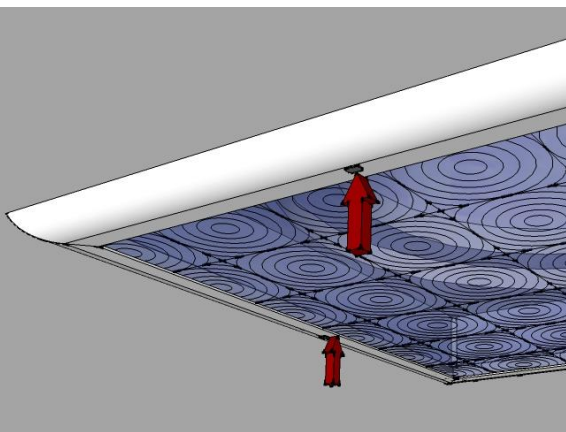
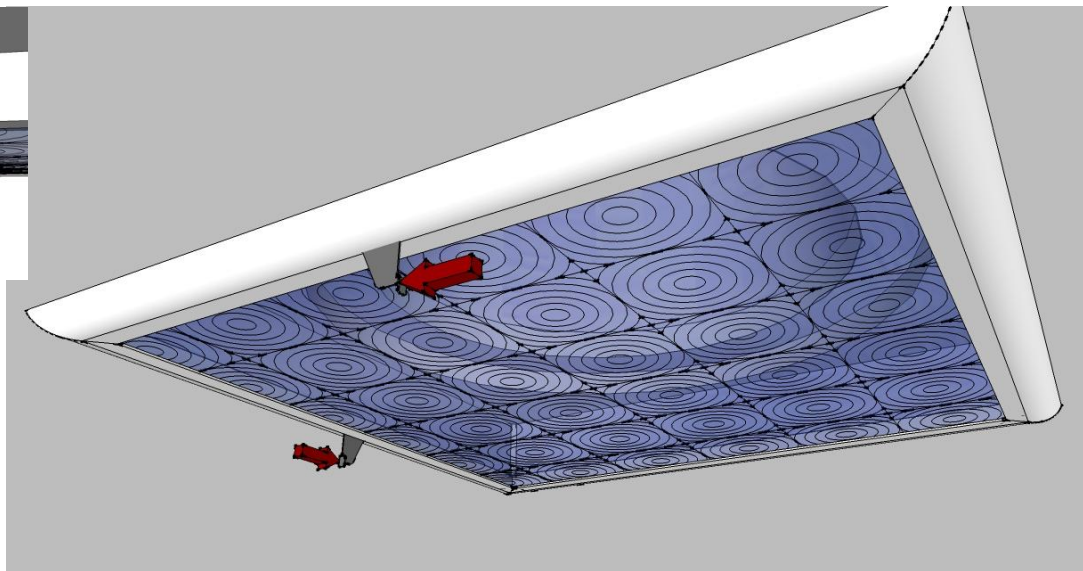
It is required to Sunizer was closed during the the whole time after the instalation!!!

The frame can be opened or closed by 4 pcs of locks.





Round diffuser has 3-5 pcs of locks. Corner difuser has 4 pcs of locks.



Installation of blackout flap Blackizer

The installation is carried out in similar way as installation of the tubus. Elektronic part entrust to Electrician.

The maintenance of Sunizer

Is similar as at common interior light. According the remove the frame with Fresnel lenses using the locks. Fresnel lenses are cleaned by dust cloth alternatively by soap water.

In the case of mirror tubus staining contact our technician.