



Use of Daylight : A Natural way of saving energy....

Modern offices are designed with glass walls / large windows for allowing sunlight . Similarly ,roofs of industrial shop floors are equipped with polycarbonate or fibre sheets for use of sun light .

However , generally we observe that these sources of sunlight are covered with blinds or curtains . Polycarbonate sheets get covered with something to obstruct sunlight .

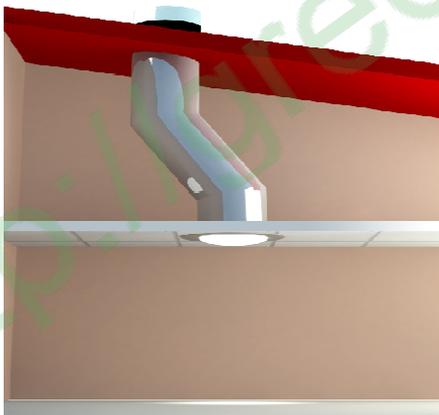
Why it is done ? Primarily to avoid glare & heat , associated with the sunlight .As the glass windows or polycarbonate sheets can not filter the heat & glare , it creates uncomfortable feeling for the occupants, results into more energy consumption of Air conditioners.

So, it is a regular experience for all of us to see use of artificial lighting during daytime .

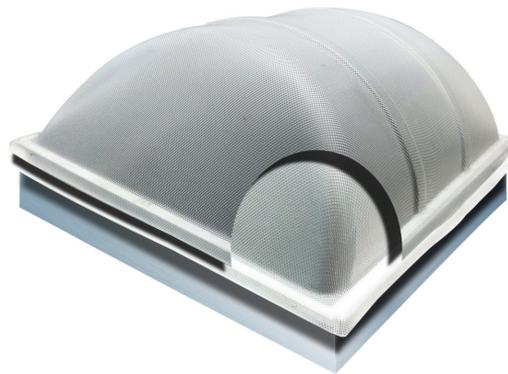
This results into not only wastage of electricity but also few more disadvantages such as :

01. More loading on air conditioning systems due to radiation of heat from the lighting sources .
02. The occupants of the space are deprived of the useful vitamins (only source is Sunlight) like Vitamin D3, which is a normal weakness among professionals.

So, the solution is to use sunlight by avoiding the glare & heat . There are two such solutions :



01. Light pipe



02.. Norikool

Lightpipe is a pipe made of a high quality reflective material, which absorbs the sunlight from all directions & delivers to the space in a diffused format . Lightpipe can be fitted on false ceiling , side walls . It can directly replace a lamp during daytime .

Norikool is designed to be installed on metallic or cement roof sheets , in place of polycarbonate or fibre sheets . There are two layers of specially defined shapes of

polycarbonate sheets. The upper layer has a prismatic texture which enables Norikool to attract more sun light from all directions even during evening hours . The lower layer of polycarbonate , which is placed 4 inches below the upper sheet , acts like a diffuser. The gap between these two sheets traps the heat & does not allow it to flow to the shop floor.

To know more , click on <https://www.youtube.com/watch?v=IOPvEi0stuI>

In case of any queries/ feedbacks , please mail to marketing@teknocrats.com

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