

DESIGN STRATEGIES (APARTMENT)

PIER 48 COMMUNITY COMPLEX

Photovoltaic roof generate electricity to meet annual consumption for all building on site and it shades building roof from direct sun and insulation under roof plane reduces building cooling loads.



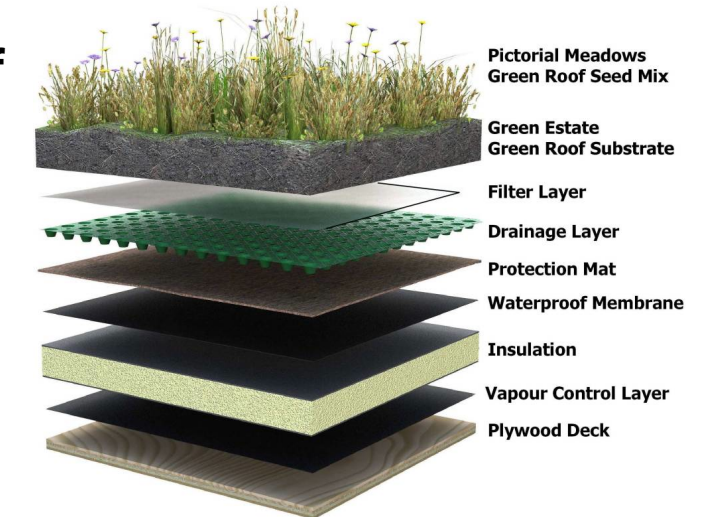
Solar thermal panels



Electric blind shade roof to reduce solar gain during summer months

Day lighting refer to use natural light to illuminate a building. This controlled admission of natural light into a space through glazing is used to reduce or illuminate electric lighting by utilizing ,day lighting and creates a stimulating and productive environment for building occupants.

Green roof or garden roof provide additional shading for roof surfaces and it reduces heat gain and provide a variety of shaded exterior and interior spaces.



Roof top rainwater harvesting
The collection and storage of rainwater from green roof catchment for future use. The water is generally stored in rain-water cistern or directed in to mechanisms which recharge ground water.



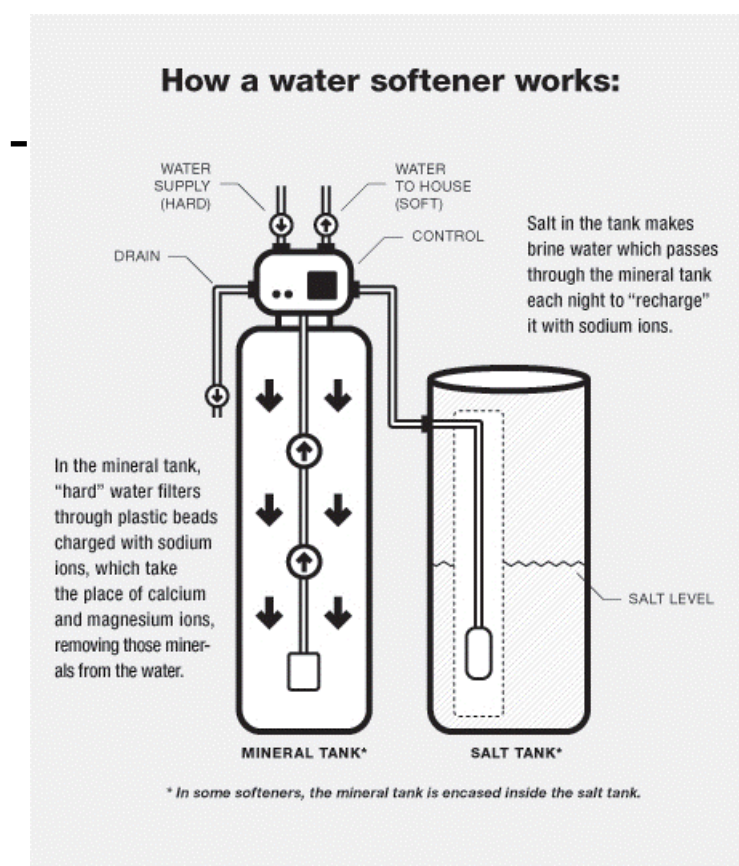
Desalinated water fresh water produced by removing salts from sea water or brackish water become portable use.

Indoor Courtyard provides open to sky indoor space away from public eyes. For the climatic feature the hot air rises and escapes the building through the court. It also produces air by providing cool air pressure difference through lower level window.

Landscape - scale stormwater harvesting rain garden capture runoff and attracts residents to improve water quality and promote stewardship in neighbourhood.

Compositing toilets use biological process to deal with the disposal and processing of human excrement in to organic compost material. Compositing toilets don't require water.

Water softener system



Vertical garden
The plants in vertical garden help absorb toxins in the air, regulate moisture, reduce reflection of light and heat. Also, it might even be used to grow a little food, provides beauty and interest for wall.

Radiant floor heating

HYDRONIC RADIANT FLOOR HEATING
This cutaway view shows how plastic hot water tubing is installed on top of the subfloor and beneath the finish flooring.

