

The Golden Rules for constructing “Energy Efficient Residential Buildings”

An energy-efficient home is a delight to stay in and occupy. A building with energy-efficient features scores high on energy conservation and low on waste production. An energy-efficient residence is more-than-desirable a feature of landscapes today, particularly in urbanized nations where environmental pollution has reached distressing levels. Below are a few thumb rules, which, if strictly followed can fetch you energy efficient homes in an easy way.



1. Go easy on space as small houses are more energy efficient than big houses.
2. Walls of the house must be exotic insulated.
3. To avoid the heat from penetrating into the house, a radiant barrier for the roof is vital.
4. Windows should use glass that is thermal efficient.
5. Ground floor windows must have a screen for bugs and definitely a metal bar for security, while windows upstairs should be able to circulate the air up and out without a fan which will make the house cooler.
6. Windows on the hot side of the house should be shaded, and positioned near trees that lose leaves in winter on the outside.
7. Natural heat can be maintained inside the house by the use of plenty of thermal mass such as concrete, stone, and tile.
8. An attic fan can help cut down heat.
9. Use compact fluorescent lighting or LED for energy conservation wherever possible.
10. Clay tiles reduce immense quantities of heat, especially when light colored.
11. Usage of gas is encouraged, as gas is cheaper than electricity.
12. With rebates, and the cost wrapped into the mortgage, solar panels are cash positive from day one. Hence it is advisable to use solar panels, tied into the electrical grid.
13. As opposed to in a hot attic or cold basement, keep your ductwork sealed and insulated, within the insulated envelope of the house.
14. Reducing humidity inside the house makes it more comfortable during hot weather. Hence, avoid houseplants, and use bathroom exhaust fan when showering.
15. AC compressor and condenser should be preferably kept on the shady side of the house.
16. Tank less water heaters are best but they require continuous maintenance. Continuous circulating water heaters are almost as efficient as tank less heaters, minus the maintenance hassle. Highly efficient gas condensing types are just hitting the market.