

Good Practices For Heat Mitigation

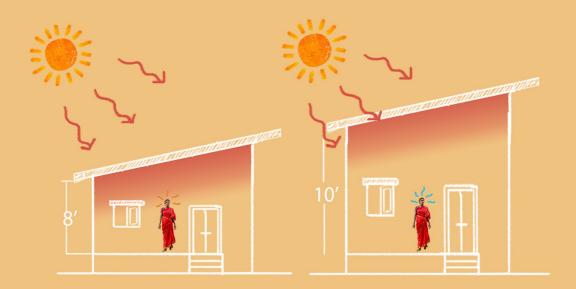








ROOF HEIGHT



When you are building a new roof, build it higher. If it is possible, 10 feet high. The sun heats the air near the roof and if the roof is higher you will face this heat less.

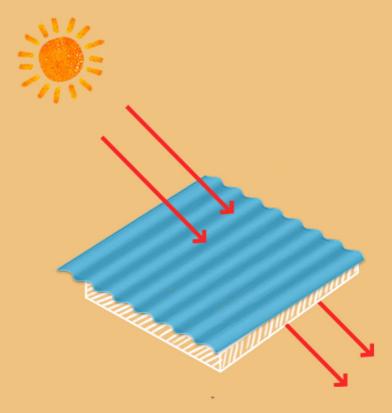








ROOF UNPROTECTED ROOF



A roof without any insulation (PROTECTION FROM HEAT) allows most of the sun's heat to enter into the home. Insulation can be done in many ways.

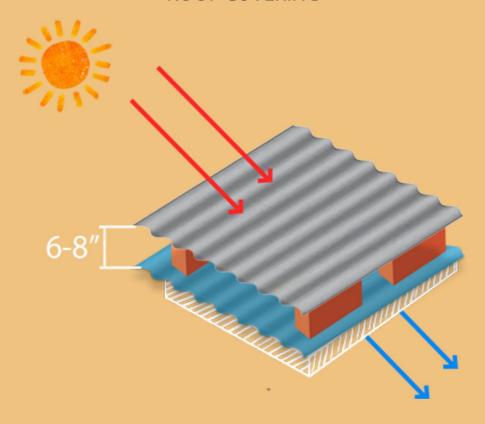








ROOF COVERING



It is better to not allow the sun to hit the roof directly. Cover the roof with another material such as thatch, thick polythene sheets, asbestos or metal sheets. Give a gap of about 6 to 8 inches between this additional material and the roof below by using bricks or blocks in between them.

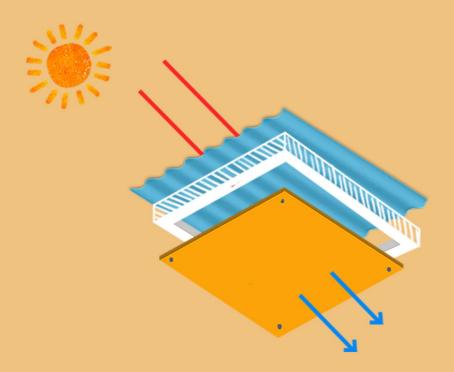








ROOFINSULATION



You can install insulating material below the roof. You can fix boards (XPS or MINERAL WOOL) to the bottom of the roof by screwing/nailing them to the wooden or steel members holding your roof. These special materials prevent the sun's heat from entering your house.

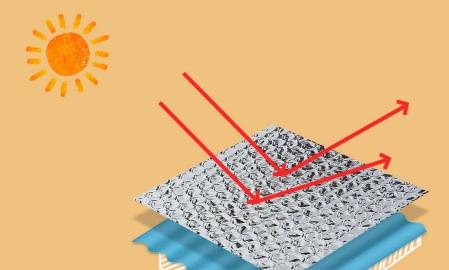








ROOF COOL PAINT OR REFLECTIVE SHEET



Paint the top of your roof with a cool paint or put a reflective sheet (ALUMINIUM BUBBLE SHEET). Do not ever paint the roof a dark colour on top, as this will absorb the heat into the material, making your house hot.

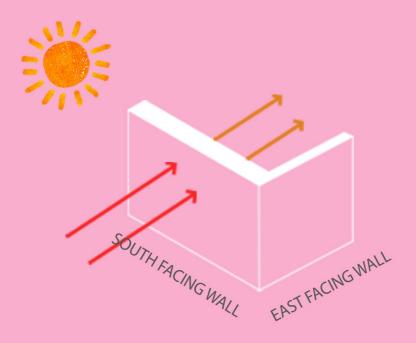








WALLS THICKER WALLS



Thick walls absorb heat and prevent it from entering the house. If possible, make your walls of 2 layers of brick or block and plaster it. Consider making at least the front wall (or the wall that is most exposed to the sun, usually the west and south walls) thicker than the other walls.

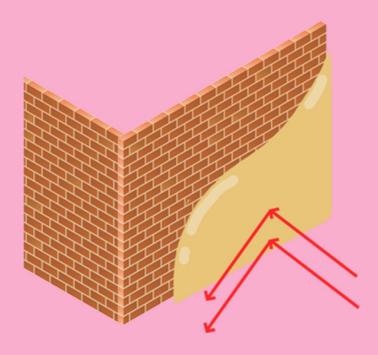








WALLS LIGHT COLOR PAINT





Lighter colors reflect heat from the sun. On the outside, paint all walls in white or light colors.









WALLS PLANTS AND CLIMBERS



Plant some trees, climbers and bushes outside your house. This prevents direct sunlight from falling on the walls and therefore makes the wall and the interior of the house cooler.

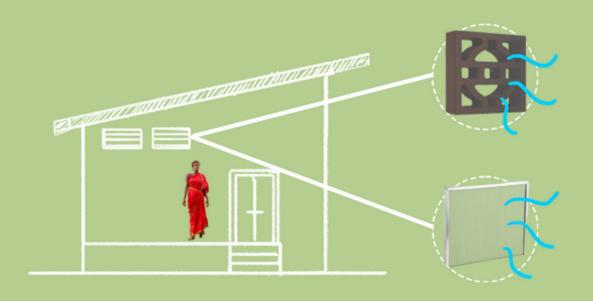








VENTILATION BETTER VENTILATION



Install ventilators (CEMENT JAALI or STEEL MESH) in your walls to allow air to circulate. Ventilators can be installed near the top of walls if there are security, privacy or other problems.

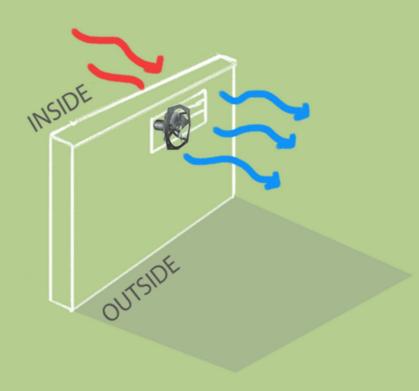








VENTILATION CEILING FAN



For a ceiling fan, try to make hanging rod about 1.5 feet long. Fans require space above them to circulate air properly and if this space is not adequate, the fan will not function well. In case there is lack of space, consider a pedestal fan or a wall mount fan instead.



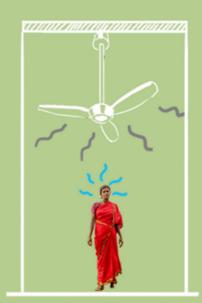






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by Aditi Tanikella Anant Maringanti Angshuman Das Swastik Harish







