

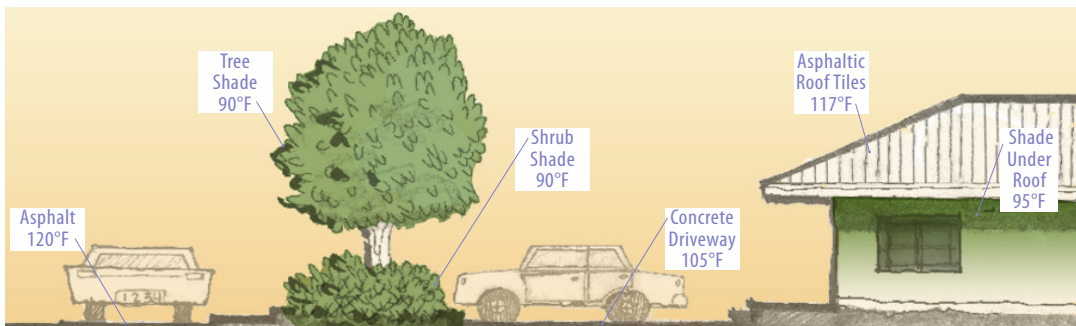
CREATE SHADE TO STAY COOL



www.sgvenergywise.org

Shading is the cheapest way to reduce your air conditioning bills

Shades drastically reduce temperature by blocking the heat and UV rays from the sun. When summer heat in San Gabriel Valley hits just above 90°, can you guess which surfaces go up in temperature?



The surface temperatures of shaded vs. non-shaded areas vary 20° to 45°. Surfaces adjacent to your home should be shaded or landscaped so that your A/C will not have to work so hard to cool the inside of your home.

Where to shade:

- Walls and windows that face east, south, and west.
- Outdoor air conditioner - it will run cooler.
- Concrete to reduce glare and radiated heat (to avoid heat island effect).

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The Benefit of Trees as Shade



MAPLE

Plant some trees to save some GREEN

- Trees add value to your home.
- Trees enhance the microclimate. Trees can reduce surrounding air temperature by 9°F.
- Select trees that balance shade and water use as some trees just need too much water.



CAMPHOR

Tree Types

Deciduous Trees, like Ash or Maple trees, block the sun in the summer, change color of leaves in the fall, and go bare in the winter.

Evergreen Trees, like Camphor trees, provide shading all year long and can grow very high which will also shade the roof of your home.

Trees with crowns lower to the ground, like Oak trees, are perfect on the west side of your home. They block lower, afternoon sun angles.

Check with your City Planning Dept. for types of trees allowed in your neighborhood.



LOW CROWN OAK

Additional Info:

www.epa.gov/watersense/outdoor/landscaping_tips.html

<http://ww2.cityofpasadena.net/waterandpower/cooltrees/Cool%20Trees%20Guidebook.pdf>

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When you provide shade for windows & walls, you also add comfort & value to your home. Start on the south & west walls.



Build a patio cover

- A patio cover can provide a shaded outdoor living room.
- A patio cover keeps the slab cool & reduces glare.
- Use recycled products if possible.
- Separate the patio slab from the house slab so heat doesn't transfer.



Install an awning

- Awnings put the shade where it's most needed.
- Awnings add color and enhance appeal.
- South and west windows are the best locations.
- Awnings are easily installed but ensure proper backing.

Planting trees, installing awnings, or patio covers can reduce electric and gas energy consumption by 15%.

Additional Info:

www.energy.gov/energysaver,

<http://www1.eere.energy.gov/library/pdfs/16632.pdf>

http://asset.sce.com/Documents/Shared/08Apr_ResidentialEnergyGuide.pdf

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Check out other improvement ideas...

Electricity

Windows

Cool Roof

Air Conditioning

Kitchen

Addition

Insulate



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SGVCOG
San Gabriel Valley Council of Governments

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