

Solar Glass Panel Analysis 10/12/2024

Both models are Pacifica Blue. One is marked "Solar Cool" and the other is marked "Solar Ban".

Solar Ban is the newer sample given to the library staff on October 11, 2024.

VLT – Visible Light Transmitted (Percent of visible light seen through glass)

Lower is better. 8-10% is usual for areas with sunny days,
3-7% is usual for areas with extreme sun.

Solar Cool = 13% Solar Ban = 7% SOLAR BAN wins for our extreme sun.

SHGC – Solar Heat Gain Coefficient (How well the glass blocks the sun's heat)

Values less than .40 is best for climates that require a LOT of Air Conditioning

Solar Cool = 0.25 Solar Ban = 0.19 SOLAR BAN will produce less heat inside the building

LSG – Light to Solar Gain (Amount of sunlight entering room efficiency/selectivity)

Values greater than 1.25 are considered "green glazing" efficient (glass is more selective in choosing visible light over infrared "heat" light)

Solar Cool = .87 Solar Ban = 1.63 SOLAR BAN is more efficient

Aesthetically, the Solar Ban sample looks bluer than the Solar Cool sample, which looks more like looking into a mirror (silvery). See next page for photo.

Solar Ban on top (blueish tint), Solar Cool on bottom (silver tint)

Both tiles have a white sheet of paper underneath and both are showing reflections of the ceiling tiles overhead.

