



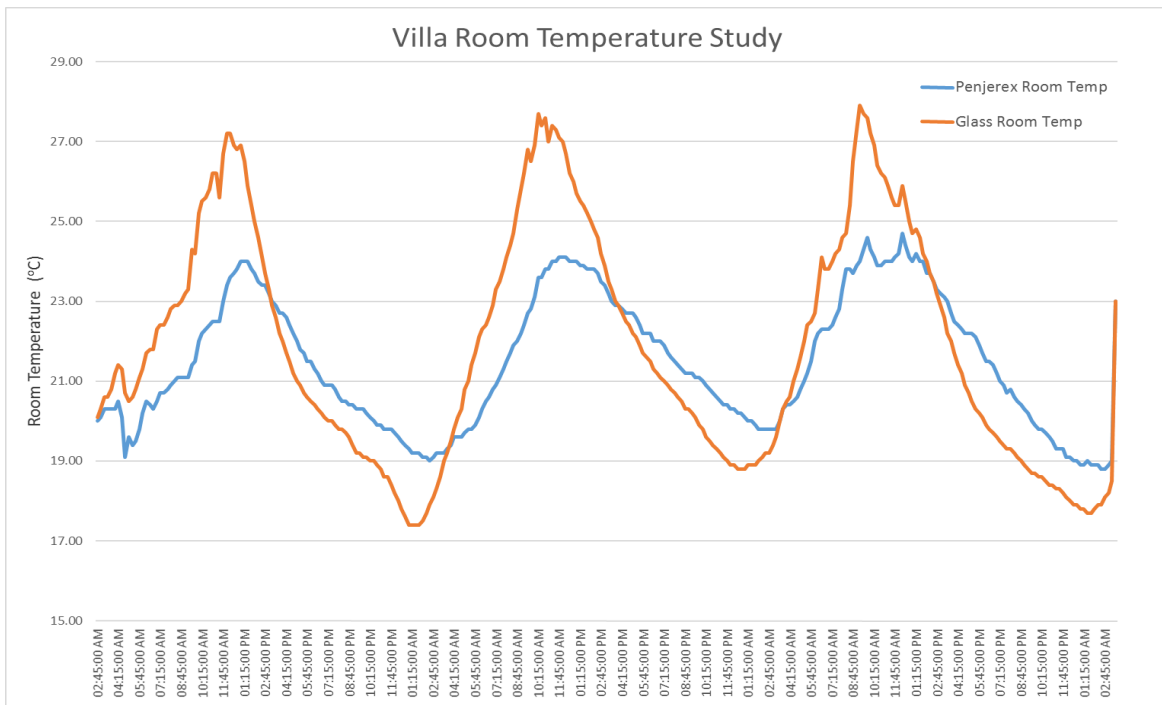
Warwick St Villa Renovation

Ryan from building project managers [360 PM CC](#) specified Penjerex insulating window film for the original windows in a villa renovation in Kingsland, Auckland.



Penjerex was installed on windows of one of the West facing rooms (on right side of picture) while the other west facing room windows (on left) were left glass only for the purposes of this case study.

Temperature loggers were placed in both rooms and no heating or cooling devices were used. The chart results below show that the Penjerex room (blue line) was cooler during the day and up to 1.5 °C warmer overnight when compared to the glass window room. With heaters operating, this temperature difference will be greater.



NB: glass window room cools down faster in the afternoon while Penjerex room stays warmer. Reason that Glass window room heats up faster is that it orients toward the north more and gets sun earlier in the days than the Penjerex room.