



Right: The value of a solar pergola outside your bedroom is best illustrated here. Light and warmth streaming into the master bedroom on a sunny winter's morning makes for a glorious awakening.

Below: Looking through to the solarium from the heat sink leading into the lounge room. Thermal mass (*tiles*) inside the solarium and heat sink is heated by winter's sun resulting in a flow of warm air into the lounge room.



solar pergola, its overhead wooden slats slotted into a framework at carefully calculated angles. In winter, with the sun low, shafts of sunshine penetrate deep into the house, warming the internal thermal mass and providing brilliant interior light.

In summer the slats' angles are so calculated that a flat surface, something like a verandah, is presented to the sun now high in the sky, so shade is provided. It's a marvellous concept and extremely effective. Additional things can be done of course. At the Dandaragan house it's a nicely placed solarium on the north side, catching the winter sun and passing it on to a "heat sink" - a small enclosed tiled alcove outside french doors opening into the lounge. The resultant heat flow to the lounge on a winter's day is remarkable. In total, this house embodies all principal elements of passive solar design perfectly. It is superbly energy efficient, comfortable to live in and, equally important, beautiful and stylish too.