

Joshua B. Guinto Specialist, Appropriate Technology July 2016

The Solar Dryer in Wings Built from Old Glass Doors and Windows

Born from Old Glass Doors and Windows

The project was part of the brick production project for a farm at Antipolo City. It required drying clay and fuel at all times. I found these old glass doors and windows lying on the ground and the farm owner no longer have a good use for this neither could not find anyone who wants to take them away.



Don't Remove Old Glass Doors and Windows

They are laminated with a thin sheet of tinting material which had to be peeled off.



The Solar Dryer in Wings Built from Old Glass Doors and Windows



Built from Old Glass Doors and Windows

A new meta frame had to be constructed to fit all the glass pieces.



The Solar Dryer in Wings Built from Old Glass Doors and Windows



The Solar Dryer in Wings Built from Old Glass Doors and Windows



Don't forget Glass Doors and Windows

Each metal part had to be protected from rust using a good anti rust coating.



Built from Old Glass Doors and Windows

A concrete foundation was constructed on which the dryer was laid over. This concrete floor was embedded with the plastic garbage and broken glasses of the farm which has already become irritating and poses hazards to the workers.



The Solar Dryer in Wings Built from Old Glass Doors and Windows



The Solar Dryer in Wings Built from Old Glass Doors and Windows



Don't throw out Glass Doors and Windows

The author attaching the wings
of the dryer.



The Solar Dryer in Wings Built from Old Glass Doors and Windows



Bent from Old Glass Doors and Windows

Finally, after several weeks of hardwork, the clay was laid on the shelves. This batch of clay are actually termite mounds taken from a spot in the orchard of the farm. The clay will later be prepared to make fire bricks for a flat bed stove in the kitchen.



Don't forget the Glass Doors and Windows

Still missing from this dryer are the plastic curtains that will hang on both sides of the dryer. The plastic curtains will keep the hot air intact inside the dryer.



The Solar Dryer in Wings Built from Old Glass Doors and Windows



The Solar Dryer in Wings Built from Old Glass Doors and Windows



The Solar Dryer in Wings Built from Old Glass Doors and Windows

Thanks for watching !!!