

Anatomy of a Roof

SCIENCE WORLD RENEWAL

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The roof's job is to protect a building from the weather, especially rain. The roof must not only repel water, it must be shaped to re-direct it to drains that take it away from the building.

Here are some of the parts:

Gravel: the outer layer of Science World's roof is gravel. More than anything else it serves to hold everything in place and keep the UV radiation from the sun off the plastic materials underneath.

Filter Cloth: the purpose of the filter cloth is to be a first barrier to debris.

Styrofoam: this is for thermal insulation; that is, for preventing the easy movement of heat energy from one side to the other.

Dimple Board: this is the final barrier for water and really fine particles.

The roof itself is a combination of concrete and corrugated metal sheeting. Ours has been covered with SBS which has been "torched on" with heat. This consists of polyester or fiberglass reinforcing mat sandwiched between two layers of rubberized asphalt, two ply roof system are durable and quick to install. These seemingly miscellaneous items have teamed up to keep the outside weather and debris from getting inside!



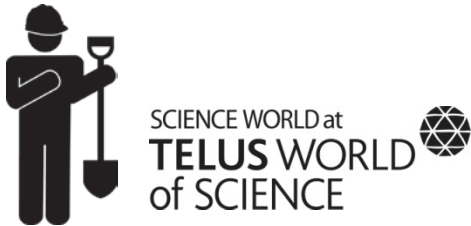
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