



## ACTIVE FILLERS FOR COMPOSITE MATERIALS

### Description

Georgia is rich with mineral raw materials (andezite, diatomite, clinoptilolite, bentonites, etc.). It is possible to transform these materials to active fillers and further use in composite materials. By using of above mentioned fillers in polymer compositions the amount of synthetic polymers can be decreased approximately by 20-30%, that leads to reduction of material costs.

We propose the technology of carrying out the chemical modifications of Georgian natural raw materials to receive active fillers. They will be offered to Georgian plastic industry as well as to companies working in Near East.

### Innovative Aspect and Main Advantages

Proposed technology has the following advantages:

- Originality of the offered proposal;
- Easiness of filler preparation technology;
- Low costs of materials and enhance economical effect;
- Exceeding of existing analogs in many technical characteristics.

Information about active fillers can be found on the web-site:

<http://www.dowcorning.com/content/silanes/silanesfiller/default.asp>.

The offered proposal is technologically easily attainable. Accessibility and low costs of the used modification agents make the proposal economically viable.

### Areas of Application

Our consumers can be producers of composite, rubber and thermoplastic materials.

In composition materials will be used widespread local mineral raw materials. Using these materials will decrease the amount of used synthetic polymers, what will get big economical benefit. Also, physical-mechanical properties of new materials are not worse than properties of polymer materials produced by manufactories.

Offered innovative proposal can get benefit from the first day. The amount of the benefit depends on the scale of production.

### Stage of Development

Development stage, laboratory tested.

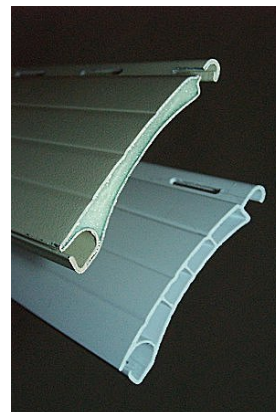
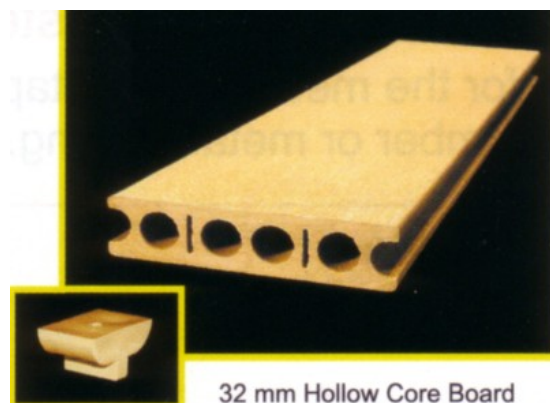


Fig.1 Profile from PVC



32 mm Hollow Core Board

Fig.2 Hollow core board

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