

3DM Construction Technologies – Eco Sheet.

Who's involved?

Wales Environment Trust and 3DM Construction Technologies

Background.

3DM Construction Technologies (3DMCT) is working on behalf of 3DM Worldwide. www.3dmworldwide.com

3DMCT is a new Consultancy organisation which aims to facilitate links between Industry, Academia and other stakeholders to help transfer the Powder Impression Molding (PIM) technology to the construction Industry in both the UK & Europe. The key features of this innovative composite technology are:

- Low cost base
- Encapsulation
- Improved product functionality
- **Sustainability**
- **Re-cyclability**
- High strength to weight ratio.
- Prefabrication
- Versatility

The PIM process presents a unique opportunity to use mixed post consumer **Waste Polymers**. As an example "**Eco Sheet**" is under production.

Eco-sheet is the 1st construction product made by 3DM Worldwide at its Manufacturing plant in Caerphilly, South Wales using its innovative Powder Impression Molding Technology. Eco-sheet is made from a **mix of recycled polymers** and other **recycled materials** including **Waste Electrical and Electronic Equipment**. At the end of its useful life **Eco-sheet can be recycled rather than go to landfill**.

Eco-sheet is very well placed to take advantage of the opportunity created by the **Waste Electrical and Electronic Equipment Regulations (WEEE Directive)** due to be implemented in 2007. This directive aims to make producers of Electrical Equipment responsible for the environmental impact of their products, especially when they become waste.

Eco-sheet is currently being trialed by Bovis Lend Lease and Land Securities who have contributed towards initial product development costs and in consequence have been given priority in respect of initial production capacity.

Working with the Trust

The Wales Environment Trust approached 3DM to offer **FREE ADVICE** and **SUPPORT**, helping identify and secure potential waste streams for their products.

Achievements.

- Helping 3DM identify potential waste streams
- Raise 3DM's profile by taking advantage of the Trust's FREE Marketing assistance.
- Reducing the amount of plastic waste being sent to landfill
- Creating a new market for WEEE waste (Eco Sheet)

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3DM eco sheet being cut to size. According to Carpenters – the eco-sheet can be cut, nailed, screwed, mitred and painted in exactly the same way as plywood but without the splinters, is better on curves and is generally easier to handle too !