

STORMBOARD

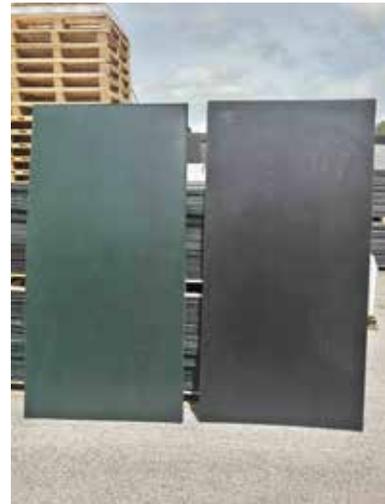
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INFORMATION ON THE ECO-INNOVATIVE SOLUTION PROVIDER

Storm Board LLP, based in From, UK, is the board manufacturing of Protomax Plastics Ltd, a plastic engineering company, leader when it comes to plastic board manufacturing technology. Protomax developed the machines for the whole P2 recycled board making process. The activity is completed by "Trading Edge", company specialised in turnkey extrusion machines and „Design Shed“, that offers 3D product and packaging design.

SHORT DESCRIPTION OF THE ECO-INNOVATIVE SOLUTION

The focus at Storm Board is turning waste plastic into a weather proof and recyclable alternative to plywood, which can be made in multi-colour and can be produced from several different polymers. An integral part of the manufacturing process of Stormboard, is the know-how built up over the years of installing machines and making panels.

These recycled boards are a great example of a more circular way of working. By producing such boards, the company contribute to safeguarding valuable resources and providing pragmatic solutions for cleaning up the environment by providing high quality products made with 100% recycled plastics. The products can be recycled again in full after use, provided the users do not contaminate it with other materials that would hinder such recycling.

INDUSTRIAL SECTOR – MARKET SEGMENT AND ACTUAL APPLICATIONS IN INDUSTRY

C22.2 - Manufacture of plastics products

C28.9 - Manufacture of other special-purpose machinery

INDUSTRIAL CLASSIFICATION - NACE CODE

C22 - Manufacture of rubber and plastic products

C28 - Manufacture of machinery and equipment n.e.c.

E39 - Remediation activities and other waste management services

1. DESCRIPTION OF ECO-INNOVATIVE SOLUTION

Technical aspects of the eco-innovative solution

Storm Board HI (High Impact)

This tough general-purpose board outperforms its wooden contemporaries in outdoor and wet environments. The standard color is speckled grey/black or speckled green. With a Polyolefin skin, it is easy to clean, graffiti resistant and weatherproof. There is a new range of Splash board, which show off a variety of recycled colors, being recycled the exact color combination cannot be guaranteed.

Applications: site hoardings, washrooms, cubicles, shower pods, tanking, outdoor furniture, climbing walls, raised beds, compost bins, animal welfare, stables, sheds, flood protection, staff canteens and site office furniture.

Storm Board SF (Shop Fitting)

Storm Board SF was developed to be a sustainable alternative for the shop fitting industry. Storm Board SF has a lower coefficient of expansion and does not expand/contract as a result of heat as much as Storm Board HI, thus giving more reliable tolerances for CNC machining. Storm Board SF is very stiff, and does not have the high impact strength of Storm Board HI. Standard delivery colour is black flecked.

Storm Board SF can be CNC machined and printed directly. It is not as UV stable as Storm Board HI, and would require cork coating if used for extended periods outside. Storm Board SF maintains its water-resistant qualities.

Applications: Ideal for furniture, shop fitting and construction.

Economic and environmental benefits of the eco-innovative solution

The UK imports about 1.4 million m³ of plywood each year. To put this in perspective that would be the equivalent weight of approximately 30 million of our Storm Boards. On top of that comes a similar consumption of particle board and MDF. When you consider how many of these boards are used in temporary applications such as site hoardings and concrete form work, and then land filled as a result of their toxic formaldehyde content we think it's just too much.

It is also estimated that each year up to 420,000 tonnes of waste wood is produced by households, or deposited at civic amenity sites in the UK. Packaging (pallets and crates) produce a further 670,000 tonnes, and construction and demolition 750,000 tonnes. (Based on figures according to the UK Overseas Trade Statistics and UK Timber Statistics 2006)

The company use waste plastics to produce a board that, due to its weather resistant properties, can be reused many times and recycled into another board at the end of its life.

The SwitchMed Program is funded by the European Union and implemented by the United Nations Industrial Development Organization (UNIDO) in cooperation with UN Environment Mediterranean Action Plan (UN Environment/MAP), the Regional Activity Centre for Sustainable Consumption and Production (SCP/RAC), and the UN Environment Economy Division.



Regional Activity Centre
for Sustainable Consumption
and Production

SwitchMed Programme
is funded by the European Union



Replacing plywood and /or virgin plastics for various applications, save a considerable amount of CO₂ emissions. Countries in which we are active and stakeholder to who we supply can take these savings for their CSR reporting and COP21 climate change contributions.

2. AVAILABILITY OF THE ECO-INNOVATIVE SOLUTION AND BUSINESS PARTNERSHIP

The technology is ready to market and several lines are meanwhile up and running. The company is active with a number of stakeholders in the value chain to open up the sales markets and has recently launched a refugee shelter at the Rimini EcoMundo event in November.

The company is interested to establish business partnerships, with the plastics converting and recycling industry, but also with construction companies, furniture producers, architects and designers. Preferably they should be willing to co-invest.

As several plastics raw materials can be used, the solution is applicable also whereas the waste collection and sorting infrastructure is not yet well established. The market size potential for our applications is so large that even if we would only achieve to have 5-10% of the present plywood market in a country, we would need to run several lines simultaneously to meet that demand. It would however then be a strong contributor to solutions for the plastics waste challenges.

Technical assistance and training to build houses and shelters can be provided. We are in direct contact with some leading architects and research centres to pass the building and construction requirements in several countries.

On international scale the company cooperate with a Brussels based NGO Waste Free Oceans Foundation (www.wastefree-oceans.org), with whom they have developed and presented the refugee shelter solution.