

## **Plastecowood's Smartawood Products**

### **Fencing and general installation recommendations.**

Thank you for choosing Plastecowood's Smartawood Endurance Plastic Products. For installations please follow these guidelines and recommendations to ensure that the guarantee remains valid. Our guarantee will only apply where the guidelines have been correctly followed.

### **Cutting and drilling tools and finishes**

Smartawood is extremely tough and durable and is quite abrasive. As a result drill bits and saw blades should be tungsten carbide tipped. Smartawood is made from segregated waste plastic.

### **Non-plastic contaminants**

Plastecowood endeavours to remove as much non-plastic contamination as possible from its input material but occasionally small pieces of metal foil can be incorporated in the profiles, posts, boards, and planks.

### **Personal protective equipment**

Appropriate Personal Protective Equipment should be worn when working with Smartawood including safety glasses, gloves, safety boots and ear protection.

### **Thermal expansion and contraction**

Plastic will expand in the heat and contract again when it cools. Where fence rails meet on a post they should not be butted up too tightly but a gap of at least 5-8 mm should be left between them.

Fence rails will twist in the heat if they expand and they are too tightly joined/ abutted.

Plastecowood Ltd recommends that rails are attached to posts using good quality galvanised mushroom capped bolts which penetrate both the rail and the upright typically with countersunk nuts where appropriate.

The holes should be oversized to allow for expansion and contraction. Ideally two immediately adjacent holes should be drilled to form one oval aperture to enable the bolt to move with contraction and expansion.

Do not overtighten the nuts on the bolts to allow “wiggle room” for some movement as the rails expand and contract.

Expansion gaps should also be allowed where Smartawood boards are used for topdecks.

### **Post installation**

Upright posts should be installed so that one third of the post is below ground and two thirds above ground. Consideration should be given, dependent on weight and span of rails and palings and also site-specific application (weather and ground conditions etc.), as to whether posts should be installed with concrete surround below ground. If in doubt, posts should always be concreted in.

### **Post and wire stapling**

For post and wire fencing galvanised fencing staples to a maximum of 25mm length can be used but it is important that two pilot holes are drilled first for each staple as the outer surface of Plastecowood’s Smartawood product is very tough to penetrate and fencing staples may bounce off with the potential to cause injury. Personal protective equipment should be worn including safety goggles and suitable gloves. Ideally screw fixings should be used instead of hammered nails or staples. Whilst fixing wire to Smartawood may take slightly longer than hammering staples into traditional timber, Plastecowood products will not require further maintenance or replacement for many years beyond the lifetime of traditional timber posts.

### **Colour and dimensions variation and non-melts**

Product dimensions and colour can vary slightly due to the nature of process and input material. Plastecowood’s input material is low grade waste plastic which means that there is wide variety of different plastics which are reprocessed in Plastecowood’s recycling process. Different

plastics melt at different temperatures but in order to maintain consistent strength and rigidity, Plastecowood processes at a consistent temperature. For this reason, Plastecowood's Smartawood products will evidence small pieces of non-melt plastic which can be of different colours to the main profile. This does not affect the integrity or strength of the product.

### **Cutting profiles along the length**

It should be noted that whilst cutting across a profile i.e. across the shortest section of the profile which does not exceed 150mm, is a standard operation, cutting lengthways along the profile can be problematic, particularly on longer sections. This is because the strength of the profile is in the outside casing which is visible looking 'end-on'. It is likely that removing one side of the "casing" will cause the profile to lose its structural strength and internal tension and bend. On shorter sections for packing or filling this may not be significant to the user but this practice is not recommended where strength and straightness are important.

### **Environmental awareness**

Please also endeavour to collect and dispose of responsibly any loose material resulting from drilling or cutting so as to avoid plastic being lost into the environment.

Smartawood can be recycled at the end of its life by arrangement with Plastecowood Ltd.

### **Advice and helpline**

For advice on installing any of Plastecowood's products please call our helpline on 01745 827000 during office hours which are 0900 to 1600 Monday to Friday.

### **Plastecowood component guarantee**

Plastecowood Ltd offers a 10 year no quibble guarantee component exchange guarantee on all its products, subject to fair wear and tear,

users following Plastecowood Ltd.'s installation advice and recommendations, and assuming reasonable care with installation and suitability of product for the application. If in doubt, please ask our helpful sales and technical staff:

01745 827000 [info@plastecowood.com](mailto:info@plastecowood.com).