

FloPlast PVC-UE SYSTEMS

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Roofline and window systems

Cladding systems

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MATERIAL SPECIFICATION

FloPlast products provide the benefits of plastics while satisfying the same application needs conventionally met by timber.

The products are manufactured from PVC-UE with low-density cellular core and tough homogeneous skin.

The products are safe and easy to handle on site and sufficiently rigid for site storage and installation.

The British Board of Agrément has accredited FloPlast products to British Standards for manufacturing and product in application (see standards below).

Note: It is important that site practice procedures and health and safety should be adhered to at all times.

WEIGHT

FloPlast products have an average density of 420kg/m³.

PACKAGING

For ease of storage, handling and protection, FloPlast products are supplied in standard pack quantities (QTY) as detailed in the FloPlast brochure, bundled and sealed in polythene sleeves.

To preserve the external finish some products are covered with a self-adhesive protective film.

PERFORMANCE

FloPlast products have the following performance characteristics:

INSULATION

- Good insulating properties, improves overall thermal installation of composite wall construction.

STRUCTURAL/MECHANICAL

- Structurally suitable for their designed applications.

Note: For non-standard applications please consult FloPlast.

- When installed in accordance with FloPlast installation instructions, the system will withstand, without damage or permanent deflection, the wind loads likely to be encountered in the United Kingdom.
- The system has adequate resistance to hard and soft body impacts likely to occur in practice.

FIRE

- FloPlast cellular and rigid boards are not easily ignitable and achieved the following result on testing.
 - BS476: part 5: 1979 – Ignitable Test:
Multi-purpose Classification 2Y
Hollow soffit 1Y
 - BS476: part 7: 1987 – Surface spread of flame, Class 1Y.

GASES

- Not adversely affected by atmospheric gases.

LIQUIDS

- Resistant to acids, alkalis, seawater and atmospheric pollution.
- Not affected by liquids in normal use.
- Impermeable and water-resistant.
- Will not promote an adverse reaction with other non-solvent building materials.

Note: Products are liable to attack by aromatic solvents, ketones and esters.

Contact with bituminous liquids is not advisable.

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THERMAL MOVEMENT

- Coefficient of thermal expansion in a heat saturation condition: 5×10^{-5} per °C.
- Subject to correct application and installation in accordance with FloPlast recommendations, thermal movement is in general controlled within the profile design.
- Capable of withstanding maximum UK external working temperatures.

DURABILITY

- The combined cellular core and co-extruded PVC-U surface skin ensures weather resistance and high durability in all conditions.
- Tested to BS2782: part 5. Method 540B.
- Certified by the British Board of Agrément.
- Accelerated weathering has demonstrated that the system will retain its decorative qualities for a period in excess of 10 years with only minor changes in surface finish.
- Where the timber is treated with a copper/chrome/arsenic preservative, care must be taken to ensure sufficient time is allowed for completion to avoid corrosion of screws and nails used to fix the FloPlast components.

ENVIRONMENTAL

- Does not contain CFC gases.
- FloPlast cellular PVC-UE products are recyclable.
- Composition /formulations are non-hazardous to health and/or the environment.

BIOLOGICAL

- Resistant to
 - Bacterial growth
 - Fungal growth
 - Termite attack

Note: Products need protection from:

- rodents
- vermin

SITE SAFETY GUIDELINES

It is essential that all FloPlast products be installed in accordance with FloPlast Technical Literature.

TRANSPORT/HANDLING

To avoid damage to components it is advised that loading and unloading is carried out by hand.

GENERAL SITE SAFETY

- All relevant requirements should be strictly adhered to and include:
 - Wearing of hard hats and appropriate footwear/clothing.
 - Ensuring safe working platforms, including guardrails, means of arresting falls and safe access to the working area.
 - Provision of first aid facilities and appropriate storage facilities for materials.
- FloPlast Cellular Boards are easily cut, routed and drilled using conventional woodworking tools.

Note: Products should always be cut with the correct tools-never broken.

- Observe all Health and Safety regulations regarding the use of hand and machine tools.
- When handling large boards wear lightweight industrial gloves to protect the hands from abrasion.
- Fine-toothed tungsten carbide tipped power tools may be used with FloPlast products at manufacturer's recommended speeds.
- Always wear a coarse particle dust mask and eye protection against airborne swarf when using power tools.

Note: PVC-UE dust poses no special hazards other those generally associated with dust.

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STANDARDS

- Manufacturing
 - BS EN ISO 9001: 1994 – Quality Systems
Licence No QO9318
- Product Application: British Board of Agrément Certification
 - 00/3771 Roof Trim System
 - 00/3772/C Cladding System

STORAGE

When storing FloPlast profiles, the products should be left in their polythene sleeve until required. The products should be stored on a flat smooth surface and stacks should not exceed 1 metre in height.

Various FloPlast products are supplied with a protective film, which is used to protect the product from abrasion. This should be removed immediately prior to installation.

DISPOSAL

Off cuts can be disposed of safely by the following methods:

- In landfill sites, where they can act as a binding agent, imparting stability to the site.
- By incineration. Ensure the incinerator is equipped with modern technology and good management practice is applied.

- Low temperatures make PVC-UE brittle; care should be taken when handling at near freezing or below freezing point.
- FloPlast products should not be installed where direct heat sources exceed 50°C.
- Off cuts should be removed from sites and disposed of, PVC-UE is not biodegradable

PUBLICATIONS/INDUSTRY STANDARDS

General health and safety guidelines for construction sites are set out in publications by various organisations, including:

- COSHH
- HSE
- CDM

The Construction (Health, Safety and Welfare) Regulations 1996 complement the CDM regulations to complete the UK's response to the EC's Temporary and Mobile Worksite Directive.

Relevant HSE publications include:

- HS (G) 150 Health and Safety in Construction ISBN 07176 1143
- Guidance Note EH37 Working with Asbestos

HSE publications available from HSE Books, PO Box 1999, Sudbury, Suffolk, CO10 6FS
Tel: 01787 881165, Fax: 01787 313995

TECHNICAL SERVICES

FloPlast provide a comprehensive technical support. For guidance on any health and safety issues, including any aspect of system design, specification or installation, please call the FloPlast Technical Helpline on **01795 431731**

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