



FREEFOAM DECORATIVE CEILING & WALL PANEL
TECHNICAL DATA SHEET

Freefoam Ceiling & Wall panels are constructed through PVC extrusion under a controlled environment. This is a hot PVC extrusion process.

- Due to the PVC composition, and the construction of the panels with additional strengthening cross members, Freefoam PVC Ceiling & Wall panels are rigid and strong; however they are lighter, less thick therefore space saving, and easier to handle than traditional PVC Ceiling & Wall panels or wood core equivalent panels.
- Freefoam PVC Ceiling & Wall panels offer additional benefits such as being considerably easier to install, hygienic, fully waterproof material construction, and class 1 fire rating for commercial use.
- Freefoam PVC Ceiling & Wall panels are for internal use only.

Material

- Recyclable Virgin PVC for consistency of quality.
- Calcium Carbonate (CaCO₃).
- Contains stabilisers, pigments, and strengthening materials.
- Gloss UV resistant lacquer surface finish (protected by cling-film).
- None of these materials are classified as dangerous. No toxic affect. Non hazardous.

Size/Weight & Handling

5mm & 6mm thick panels

- 2700mm x 250mm x 5mm; 4 panels per pack; 2.7sqm per pack.
- 2700mm x 200mm x 6mm with 2 grooves; 5 panels per pack; 2.7sqm per pack.
- Minimum 2.2kg/sqm; 6.4kg per pack & 33kg per outer carton of 5 packs including packaging.

7mm thick panels

- 2700mm x 400mm x 7mm; 3 panels per pack for showers, walls, and ceilings; 3.24sqm per pack.
- Minimum 2.8kg/sqm; 9.8kg per pack & 30kg per outer carton of 3 packs including packaging.

Storage & Handling

- Store Flat.
- No specific handling requirements.
- Outer cartons – beware of heavy weight. 2 persons required to handle.
- Protect edges and decorative surface from damage during handling.

General

- Panels can be easily cut to size on site.

- Longer/shorter lengths can be manufactured for direct container orders.

Colours

Freefoam stocks 10 Ceiling & Wall Panel decors.

Freefoam offers direct container customer orders on many additional décor options.

Fire Rating

- Freefoam Ceiling & Wall panels hold a Class 1A fire rating which can be sent in full upon request to Freefoam.
- As panels are Class 1A fire rated, they are ideal for many domestic and commercial installations.
- No specific fire-fighting instructions are required.

Thermal Properties

Freefoam Ceiling & Wall panels can handle temperatures / heat of up to 60°C before any discolouration or warping of the PVC.

Scale Formation

- Low susceptibility to hard water.
- Standard scale remover can be used on any scale build-up.

Chemical Resistance

PVC is resistant to caustics, mineral oil, and foodstuffs like milk and coffee etc.

Impact Resistance

Test EN13245-1:2004: pass: 5 joule at 23degrees centigrade.

Accessories

PVC Profiles:-

Freefoam Ceiling & Wall panel PVC Profiles are 2.7m long and are available in five profiles:

PROFILE	Finishes
Internal Corner	All Profiles are available in:- White Gloss, Black Gloss, White Matt, Black Matt, and Bright Silver-Chrome
External Corner	
End U	
H-Join	
Scotia Corner	

Freefoam also have a White Matt L-Shaped Internal / External Corner; and Bright Silver-Chrome L-Shaped External Corner. These profiles are 2.7metres long.

Preparations

Freefoam Ceiling & Wall panels are very easy to cut using a rough bladed saw, or table saw, or with a Stanley knife by scoring the décor surface. While cutting you must be aware that sharp edges may be encountered which should be smoothed off.

While preparing Ceiling & Wall panel boards, gloves and protective eye wear should always be worn.

- When cutting panels with a jigsaw or circular saw, cut with decorative face downwards.
- When cutting panels with a handsaw, cut with decorative face upwards.

Water & Rain

- Panels should never be left outdoors, and never be subject to rain (which may contain acids).
- If left outside, rain and water on panels can also magnify the effect of direct UV sunlight rays and discolour panels.

UV Resistance

Special UV resistant lacquers have been developed for the panels, however we do not recommend leaving panels outside in direct sunlight.

White PVC is the décor most susceptible and noticeable to colour change. Test results of white PVC panels left outside subject to direct strong sunlight dated 20.6.2012, are as follows:-

- ½ hour exposure:- no discernible colour change.
- 1 hour exposure:- virtually no discernible colour change.
- 1½ hours exposure:- small, just discernible colour change.
- 2 hours exposure:- small but discernible colour change.

Cleaning

Freefoam PVC Panels should only be cleaned by Hard Surface Cleaner or any other non-abrasive cleaner (any cleaner / detergent which contains bleach must not be used).

Scouring products or powders should not be used.

Acetone, halogenated carbon hydrates, esters, ketones, ethers, and alcohols should not be used on PVC.

Disposal

Freefoam Ceiling & Wall Panels can be taken to a landfill and can be recycled.

Other Properties

- 1) Freefoam PVC panels have been installed in Hospital Surgical wards and as such have perfect properties for an installation requiring the utmost cleanliness and hygiene.
- 2) Freefoam PVC panels have been installed in restaurant kitchens and are suitable for kitchen installation. Be aware behind hobs or any cooking appliance for heat transference to the Wall Panels of no more than 60°C.
- 3) Freefoam PVC panelling has been installed in shops, nursing homes, housing association developments, sports centres, static homes and many other commercial installations in addition to household installations in bathrooms, shower rooms, and other areas of the house such as kitchens and extensions.