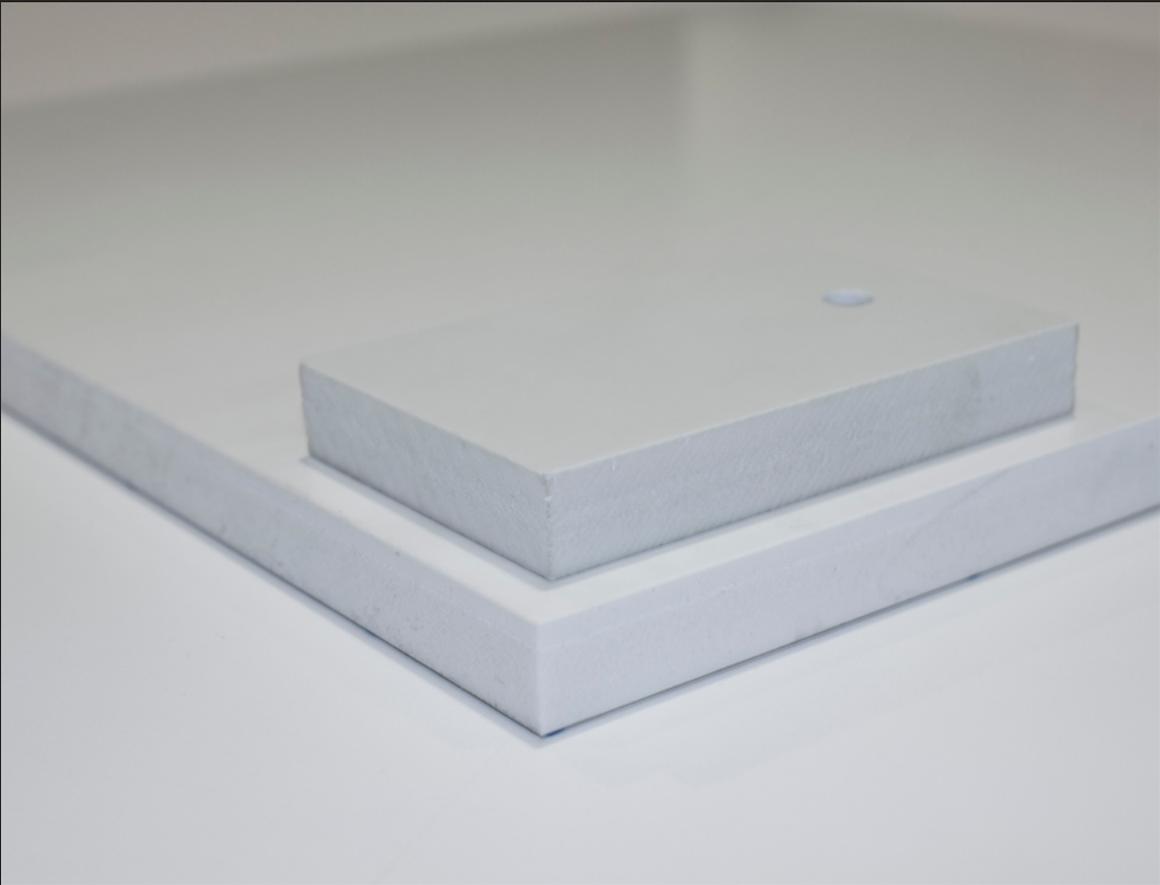


look inside



nikpol[™]
aquaplus

Advance Polymer Board

Aquaplus

An advanced PVC based polymer board with all the working and processing properties of timber based panel with a host of added benefits.

Sheet size: 2440- x 1220mm
Density: 0.60g/cm³
Thickness: 9mm, 12mm, 16mm, or 18mm

Aquaplus is a light weight polymer board ideally suited to applications where a sturdy, water proof panel or substrate is required.

Features

- Waterproof
- Chemical resistant (most acids and alkalines)
- Lightweight
- Resistant to mould and mildew
- Weather resistant
- Good acoustic insulator
- Good thermal insulator
- Can be thermally moulded into unique shapes
- Resistant to white ant and termite attack
- Self-extinguishing within 10 seconds when flamed
- Environmentally friendly — does not contain lead or organotin based compounds.



Aquaplus is the perfect material for wet areas to avoid mould and mildew growth.

**LEAD AND
ORGANOTIN
FREE**

Application

- Carcases of cabinets
- Substrate for laminate (must be laminated both sides)
- Substrate for timber veneer (must be cold veneered both sides)
- Walls linings in wet areas
- Areas of high humidity
- Animals shelters/lining for Kennels
- TV, and stage sets, where light weight props and construction is required.
- Exhibition booths
- Display units
- Marine Cabinets, subject to high humidity and salt air
- Laboratory furniture, subject to chemical spills
- Light and air shafts for skylights and exhaust fans
- Signage
- 3D displays
- Skirting
- Kick boards in kitchens
- Moulding around doors/windows
- Window reveals

Notes for Application and Processing

- Foamed PVC sheets are all thermoplastics and will shrink and expand with movement in temperature, so do many other sheeting products, However the fact that it is a foamed thermoplastic, movement is far less than movement in solid PVC sheets etc.
- This product comes off the machine true and flat, however through improper storage, manufacture, or miss handling, or sheet is subject to any stress, it will deform.
- Not suitable for work tops.
- Stress can be created when only one side is laminated resulting in deformation.
- This also applies to other panel products like MDF etc.
- Glues that are not urethane based will dry harder with little flexibility, this may cause surface stress on one side and result in deformity.
- When ambient temperatures are different on each side of the panel deformation will occur unless the board is well anchored using adhesive, and screwed or nailed.
- When intended for use as a door stress may be caused at the hinge points resulting in warpage. Location, thickness, of panel and hardware may vary the extent of deformity.
- Exposure to direct sunlight, at high temperatures may also cause deformation dependent on fixing, and nature of the complete structure.
- Initial stresses caused by hinges, and locks etc will be amplified when exposed to heat.
- The board must not be used in a cantilevered application, as deformity may occur on the unsupported section.



Aquaplus is waterproof making it the perfect material for use around pools, saunas and bathrooms.

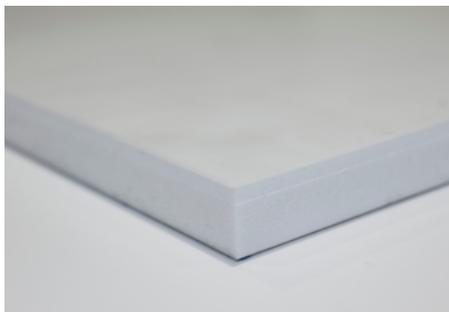
Aquaplus is lightweight making it the perfect material for RVs, marine cabinets, or display show setups.

Aquaplus is also chemical resistant, good for laboratories and hospitals.

Application

How do we recommend fitting of Aquaplus

When long runs are required start fixing from one end and work towards the other to relieve stress, fixing from both ends towards the middle could develop stress resulting in bowing at the centre.



Aquaplus is waterproof making it the perfect material for use around pools, saunas and bathrooms.

- Must be glued and nailed or screwed.
- We suggest that any adhesive, sealant, or caulking have a polyurethane base to allow for flexibility can be machined with normal carpentry tools.
- Care must be taken that tools are sharp.
- It is important that gluing to the backing frame, studs etc along with screws or nails is done for a stronger fixing, a polyurethane based adhesive is best, as it stays flexible when cured, causing less surface stress on the glued face.
- Areas of Caution. Customers must be advised of.
- Test all adhesives, fillers, and finishes on a test portion before starting a job.
- Do not recommend this product unless it is fixed on all four sides.
- Do not recommend this product in a horizontal application, especially if exposed to higher temperatures.
- Shelving is appropriate if the shelf is framed on all four sides.
- The board is not designed to carry any weight, or resist pressure unless fully supported.
- This is a light weight waterproof substrate product. So it requires a finish to its surface, therefore minor scratches, dents, and staining must be treated before a finishing is added to the product.
- A light sanding and a suitable primer will ensure the optimum results.
- As with all panel products storage completely flat or completely vertically is required, to avoid warpage.
- Veneering can only be achieved with a cold process, high pressure heat veneer processes are not recommended.
- Working with Aquaplus requires the skills and tools normally used in a panel and joinery business.
- Standard safety precaution should be observed when working with Aquaplus including eye protection and dust masks.
- When used as component for cabinet construction, all joints must be glued and either nailed or screwed.
- When used as a wall sheeting or substrate, panels must be glued either nailed or screwed at a regular intervals onto framework at 450mm centres.
- When working with Aquaplus, readily available adhesives, sealing adhesives and joint fillers suitable for PVC with a polyurethane base give optimum results.
- In applications where long continuous butt joints or corner joints are required Aquaplus can also be heat welded using standard PVC heat welding equipment.
- The advanced formulation of Aquaplus ensures a far superior "close to edge fixing" and reuse of fixing points than wood chip and fibre based panels.
- Aquaplus is a thermoplastic polymer; care must be taken when exposed to continuous sunlight and high temperatures, an appropriate thickness of sheet should be selected with adequate fixings to a backing frame that allows for thermal expansion.
- Aquaplus have the potential to be used in a variety of innovative applications, as such fit for purpose in specific applications is the responsibility of the customer.
- Aquaplus can be used as a finished product in cabinet and wardrobe carcasses where faces are not directly visible.
- Aquaplus can be used as a substrate for tiles, laminates, paper foils, favruc, cold veneers, roll formed benchtops, painted and polyurethane finishes.
- Surface finishes must be applied to both sides of substrate to avoid warpage.
- Oil based and water based paints can be used directly onto Aquaplus. Optimal results achieved by the use of suitable primer. *Do not use toluene (thinners) or petroleum based solvents. Clean only with water based detergents.