



SUPABOARD PANEL MANUFACTURE

- **Internal Partition walls**
- **External SIPS Walls**
- **Custom Designed Panels**

INTRODUCTION

Supaboard Panel Manufacture

BUILDITECO' Supaboard has unique features, it is rigid and extremely tough but also practical and very versatile, which makes it a compelling choice for manufacturing panels for construction, commonly known as SIPS panels (Structural Insulated Panel System). There are many systems in the industry however we only provide material and manufacturing of the panels to your requirements as needed.

Builditeco provides no warranty on the fitness for purpose for panels manufactured to the design of others. We do warrant the constituent products of the panel and workmanship of panel manufacture.

We have tested the Supaboard to Australian Standards for many applications including ceiling lining, wall linings, floor systems and façade systems.

Supaboard panel manufacture can offer an extensive range of options and solutions for SIPS systems.

Builditeco has a wealth of knowledge in manufacturing using EPS (expanded polystyrene), XPS (extruded polystyrene) and polyurethanes foams.

We can organize customized Wintech cutting for different EPS panel designs to incorporate structural features, electrical and plumbing services.

There are many SIPS systems and most require a joining system or method, which we can help design.

We have also carried out extensive testing on adhesive systems to suit almost any application in the panel manufacturing process.

Testing

If required we can also help facilitate structural custom panel testing through our engineers.

Product Range and Details

Supaboard thickness: 4.5 mm, 6 mm and 10 mm are standard [3 mm up to 25 mm is available to order.]

Panel thickness is usually anywhere between 50 mm and 300 mm.

Panel dimensions: 600 mm, 900 mm or 1200mm wide by 2400 mm, 2700 mm or 3000 mm long are standard. Supaboard can be ordered to specific sizes on request to a maximum width of 1220 mm and length of 3000 mm.

Special Features of the Supaboard panel facing.

1. No special treatment is required for termite resistance.
2. It is recyclable and has low embodied energy.
3. It is Asbestos free and non-toxic.
4. Supaboard is weather resistant and durable.
5. There are no special requirements for on-going maintenance.
6. It is moisture resistant, making it suitable for use internally or externally (when finished) or as a substrate in wet areas.
7. It is a non-combustible material and complies with AS1530.1.
8. Supaboard is 25% lighter than compressed cement sheeting.

Cutting

Supaboard can be cut very easily with a carbide tip knife or any timber cutting tools, however if cutting a lot of material we recommend diamond cutting tools, or fibre cement saw blades. Finer cuts are achieved by using power tools such as a circular saw, jig saw, bench top saw etc. Service holes may be created by using drills, hole saws or jig saws.

NB: Please observe Occupation Health and Safety Practises as dust will result from mechanical cutting

Tiling

Supaboard is an excellent wet area lining material and suitable for direct tiling. Supaboard can be butt joined the sealed with Glo mastic or Bostic seal & flex polyurethane mastic. Use Supaprime or Dulux Green Render Sealer before applying the tyle adhesive system of your choice.

Keep in mind that wet areas require waterproofing to the BCA requirements. In areas above tiling, follow the wall lining installation as a flushed system.

General

Ensure Supaboard faced panels are 6 mm away from the floor and ceiling to allow for any thermal movement.

For the best results ensure any screwing to Supaboard faced panels follows the guidelines given in the Supaboard Linings installation Manual. Ensure that the screws don't over-spin by adjusting tension on on power tools.

When using any self-embedding screws ensure that they are not more than 2mm below the surface of the Supaboard, kept no less than 20 mm away from the sheet edge and 60 mm away from the corners of the board.

Finishing

Supaboard faced panels can be finished in a variety of ways including painting, wall paper and tiles or as required.

Note: For wet areas, the water proofing requirement of all relevant codes, standards and regulations must be met.

Water proofing membranes must be installed to the manufactures specifications and application methods must be consulted and complied with.

Supaboard has a smooth face on one side and a machined face on the other side and the board can be used either way exposed to the elements. High Strength Supaboard has a minimum of 4 layers of fiberglass mesh throughout the board which gives the Supaboard very high impact strength.

The smooth face gives you a great surface to finish with flat acrylic paints to the desired finish; prep work is kept to a minimum before applying our recommended DuSpec coating system as a final color finish. The sanded surface will give a great bond for render based finishing systems.

In all cases we recommend sealing the board with the specified priming systems as soon as possible. The board must be dry before sealing.

Finishing Supaboard Faced Panels.

- Dust off the Supaboard and any loose material around screw heads.
- Fill screw heads with 2 coats of Dulux Acrapatch Fine + 5% cement
- Sand back to a smooth finish.
- Apply another coat as a top coat if required then sand back smooth for flat paint finishes.
- If texturing, there is no need to top coat as the previous step, simply apply Supatexprime or Dulux TXT primer, see **DuSpec Express jointed system** at www.supaboard.com.au
- Apply a roll on texture or trowel on finish, see **DuSpec**.
- Apply top coat.

We have worked with companies to develop special primer systems that will give a texture finish for applying trowel on finishes in 4 steps including top coat. Please refer to the Supaboard finishing section on our website.

It is advised that a minimum of 6 mm Supaboard thickness on a panel system for tiling areas. Support angles maybe required to support tiled areas and the overall wall mass and stability may need to be considered.

Brand named paints usually give better results. Always follow the paint manufacturer's recommendations for paint suitability, mixing instructions and application.

Note:

Supaboard must be primed with approved Primers. Use Supaprime for flat wall finishes and refer to the DuSpec for texture finishes.

Conditions of Warranty

BuilditEco warrants that the product shall be free from manufacturer's defects and shall be subject to the General Terms and Conditions of Sale (available at www.builditeco.com.au).

Disclaimer

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