



Ecolume

Real Timber - Real Solutions

Lightweight Beams and Panels

Inventive · Adaptable · Sustainable

Think outside the rectangle

With Ecolite beams, you are not confined by shape or even thickness as we can produce structures up to 98mm thick of varying shapes and lengths. Of course, available in timber veneer, laminate, vinyls and digital print.

We have many architects and designers specifying Ecolite products due to their diversity of applications.



Allow your imagination to soar and dream up interesting shapes such as wave formations and freeform profiles.

Digitally Printed



Ecolite beams and panels are available in a wide variety of options using the Rawinkk digital printing process. This allows the customer to use a type of timber or pattern and even colour that is customised and unique to the specific project.

Advantages of Digital Printing

- Beams and panels do not require any additional coating and are ready for installation.
- Flexibility in choice of image to be utilized.
- More than one image or graphic can be overlaid to produce stunning results.
- Client specific branding can be achieved.
- Expensive or even hard to get timbers can be printed in large quantities.
- Chosen timber can be made lighter or darker to suit a particular application.
- Realistic beams that look like timber, concrete, metal or anything you can imagine are now achievable.



Digitally Printed Rawinkk

Whilst offering a standard range of woodgrain and specialty options, this is often only a starting point as our graphics department is able to adjust the colour and tone of these timbers if the project requires. Being a digitally printed product also means that a custom image or pattern can be created for any specific or branded application!



Our unique printing process allows us to be able to print onto all four sides of the beam if required.

PLEASE NOTE:
Colours of printed product may vary slightly from this brochure. Variations in substrate may cause colour variation of actual printed material.



Grey Ironbark



European Oak



Queensland Walnut



Heritage Walnut



Country Style Oak



Distressed Oak



Spotted Gum



Digitally Printed Rawinkk



Rustic Walnut



Mixed Hardwood



Blackbutt



Dark Distressed Oak



Zebrano Style



Weathered Timber - Grey



Weathered Timber - Natural



Off Form Concrete



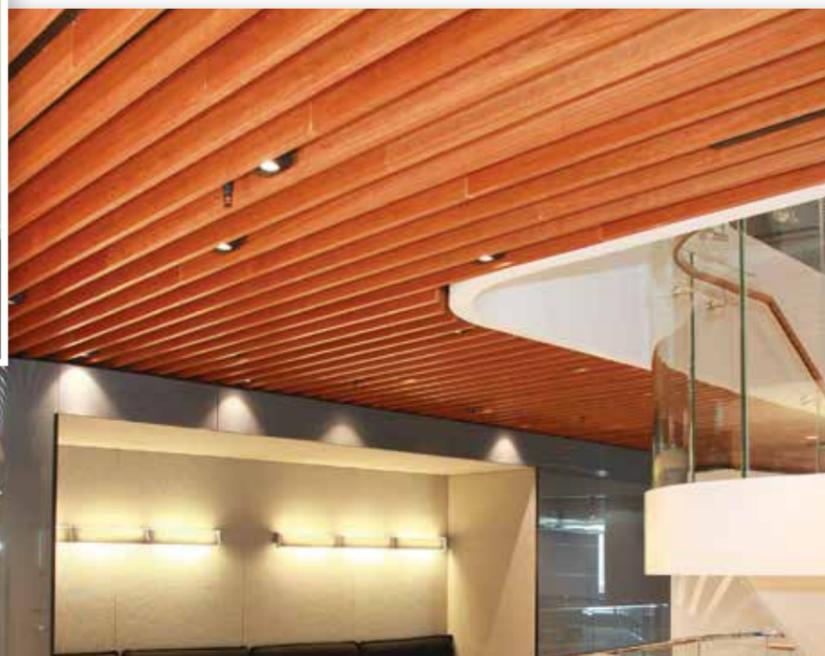
Hammered Steel



Natural Timber Veneers



Truly Stunning Results can be achieved by utilising the lightweight advantages of Ecolite Balsa beams in combination with the extensive choice of natural timber veneers. Veneers can be selected from natural timber, or reconstructed (man-made) options.



Timber Veneer Range

Timber veneers featured on this page are just a starting point. Veneers can be selected from all major veneer suppliers, including both natural timbers as well as man-made (reconstructed) veneers.



American Beech



American Cherry



American Walnut



Blackbutt



Brush Box



Grey Ironbark



Jarrah



New Guinea Rosewood



Qld Walnut



Red River Gum



Rock Maple



Spotted Gum

Special Options

Clients have the flexibility to create over-size chunky beams that would be virtually impossible to install using conventional methods. Hollow-box beams, the look without the weight - from weathered timber to formed concrete.

Engineering costs are 'out the window', and combined with utilising digital print the possibilities are endless.



LED Strip Lighting

Ecolite Beams are also ideally suited to be used in conjunction with LED lighting.

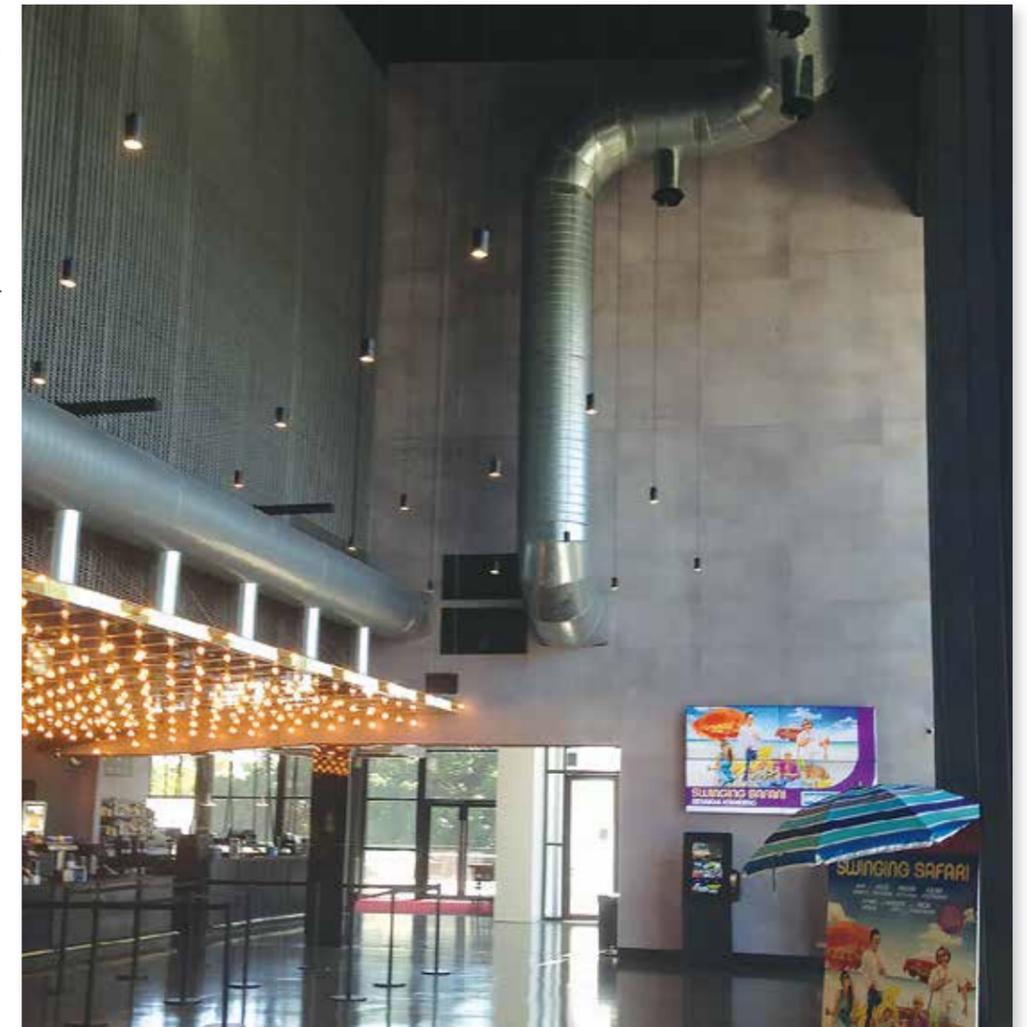
We are able to provide LED strip lighting that can be inserted at the time of manufacture or installed at a later date.

Balsa Banova Plywood

The Unique lightweight advantages of Gen-Eco's Balsa Banova Plywood were put to the test when over 150 sheets were used in the fit-out of the Reading Cinema in Newmarket, Qld.

Panels of 2440 x 1220 x 15mm plywood were used for feature walls over 11 meters in height. With a weight of only 10kg per sheet, the panels proved a bonus for the installers when working on such a high wall. In comparison a sheet of MDF in a similar thickness would be close to 40kg.

The plywood panels were digitally printed with an 'off-form' concrete image - in fact our designer created eleven different panels to provide a variety to avoid any repetition that can be sometimes evident in printed projects.



Chunky bulkheads, walls and ceilings were all produced using the plywood and digital printing process, with outstanding results. The client was able to achieve a 'basement/bunker' look that would be virtually impossible to achieve any other way.



At Gen-Eco, we are not prescriptive on how our beams are to be installed as projects are often governed by site conditions. However, our experience with balsa has taught us that several methods work well with our balsa beams and fins.

As balsa is extremely lightweight, in most applications there is no requirement for structural engineering.



1 & 2 This method shown utilises Booker Rod combined with Furring Channel. Ecolite Beams can be either bottom or top fixed to the Furring Channel.

3 Installation using the Striplox system.

4 Screw Fixed with 75mm screw through Rondo Ceiling System.

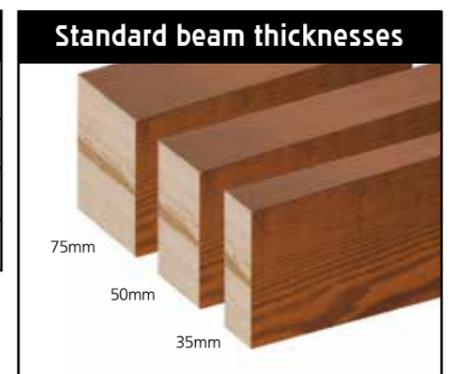
5 Black MDF or Plywood back-fixed into beams which are installed in both vertical and horizontal applications.

Standard depth and thickness guide					
	Standard Lengths	145mm depth	195mm depth	295mm depth	Fire Hazzard
Digital Print	2400mm 3600mm	35/50/75mm 35/50/75mm	35/50/75mm 35/50/75mm	35/50/75mm 35/50/75mm	Group 3 Group 3
Timber Veneer*	3600mm 2400mm	35/50/75mm 35/50/75mm	35/50/75mm 35/50/75mm	35/50/75mm 35/50/75mm	Group 3 Group 3
Laminate**	3600mm	35/50/75mm	35/50/75mm	35/50/75mm	Group 3

* subject to length of veneer available ** subject to sheet size of laminate available



Weight guide by beam length and depth			
	Per L/m	2400 length	3600 length
35mm	1.7kg	4.0kg	6.1kg
50mm	2.0kg	4.8kg	7.2kg
75mm	2.6kg	6.3kg	9.4kg



How to specify Ecolite Beams for ceiling application.

Select Size:

Beams to be Length by Depth by Thickness.

Beams to be installed at centres.

Select Finish:

Digital Print Standard Option Special as per Sample

Timber Veneer Is Coating Required?

Laminate Supplier

Vinyl

Installation Method:

Booker Rod with Furring Channel Top Fix Bottom Fix

Striplox. Pro 23 Pro 55 Clip 50 Flush Fix Shadow Line Fix

In conjunction with Rondo Ceiling System

LED Lighting:

Are LED Lighting strips required in conjunction with beams?



The Balsa Story.

Balsa is the world's lightest and fastest growing tree with commercial applications.

At Gen-Eco Environmental Wood Products, we use end grain panels produced from 100% FSC certified plantation Balsa.

We sandwich the balsa within a thin MDF skin (typically 3mm). This creates a particularly light yet strong product. This construction has extremely high strength and stiffness-to-weight ratios, and achieves an excellent bond with all types of resins and adhesives. It is compatible with a variety of manufacturing processes and is

resistant to temperature changes and exposure to fire. It is an ideal core material for an extensive range of applications whilst being a renewable resource.

Gen-Eco's Ecolite beams and panels provide lightweight and cost effective solutions for ceiling and wall applications.

With the flexibility of selecting from digital print, timber veneer, laminate and vinyl, we offer the widest selection of choice available in the Australian market.

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