

Parkside Timber manufacture their stunning hardwood Glue Laminated (GL) beams and posts to Australian Standards and GLTAA specifications.

Parkside GL products are produced with Queensland Spotted Gum, helping ensure maximum quality, durability and performance of its GL product.

For the best performance of Parkside's GL products, it is a requirement that all Parkside GL products are handled and installed using the following installation recommendations.

It is important to check the environment that Glulam is installed in to ensure the best performance. Dry, covered and well ventilated areas best suit these products. Parkside Glulam is not designed to be installed in ground.

#### On Site Handling

#### Protection on Site

#### Installation

#### Protective Measures

- Best Practices
- Protective Coatings

If there are further questions regarding the installation of GL products, Parkside recommend, contacting your local Parkside supplier or referring to the relevant Australian Standards.



## PARKSIDE GLULAM INSTALLATION GUIDE

### On Site Handling

Strict adherence to the below requirements will help ensure that the finished product performs to its specifications.

This guide does not prevent damage resulting from negligence or other factors beyond the control of Parkside during shipping, handling and storage on site. Parkside Glue Laminated products are supplied to its customers' sites in Parkside packaging. This packaging is designed to provide minimal protection during transport only and is not a comprehensive cover against weather or other damaging factors such as forklift damage or poor handling.

It is recommended that lifting or securing Parkside GL Beams and Posts should employ the use of webbing slings and not chains and wire slings as this could damage the product. GL Beams should be lifted on edge wherever possible and spreader bars of suitable length used on long members to eliminate the possibility of overstressing the beam.

### Protection On site

Maintaining and protecting the integrity of Parkside GL products on site is crucial to the overall performance of the product. When the product is delivered, it should be placed on timber gluts spaced and evenly packs to supply uniform and adequate support.

Parkside GL product should be stored in a dry condition on site and protected from direct exposure to the weather. If covered storage is not available, the GL packs should be placed evenly on timber gluts well off the ground at a well-drained location and should be covered with suitable non-transparent plastic or tarpaulins. The type of cover precludes moisture whilst maintaining good air circulation in and around the packs.

### Installation

Whilst Parkside GL products are produced from Queensland Spotted Gum, a species known for its durability in exposed above ground conditions, they require protection and careful handling during installation and after completion of the installation.

During the construction process Parkside GL products could be stored on site or even placed in situ. During this time the product requires protection from weather exposure. Parkside recommends two options - either a timber sealant coating or an impervious covering/ wrapping.

1. A protective timber sealant coating inhibits moisture from getting into the timber during normal domestic construction periods (6 weeks). Should this period be extended or the timber shows signs that the sealant is no longer performing, renewal of the protective sealant may be necessary. Should the GL products be cut, checked, bolted or otherwise worked on during construction, renewal of the protective sealant to the exposed or unsealed timber is required.
2. If using an impervious covering/wrapping to protect GL beam/post during construction, it should be placed with an opening on the underside to allow moisture to escape and the beam should be placed on evenly spaced timber gluts.

Once the construction is completed and the product is in situ, Parkside recommends the ongoing use of a timber sealant as part of the products regular maintenance.

### Protective Measures

Parkside GL products may be used in exposed situations where both UV light and moisture can influence the integrity of the product. A number of different recommendations are made to help prevent the adverse effects that may occur due to these factors.

## PARKSIDE GLULAM INSTALLATION GUIDE

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### Best Practices

The design of structures incorporating Parkside GL products which will be fully exposed to the elements should include measures to mitigate exposure to direct sunlight and moisture ponding and promote rapid shedding of moisture.

The following detailing and design practices are desirable with regard to enhancing the structure's service life:

1. Joint detailing should comply with the following:
  - a. ensure moisture entering the joint is not trapped but can run away freely
  - b. keep horizontal contact areas to a minimum, favouring self-draining vertical surfaces
  - c. use non-corroding fasteners which do not cause splitting during installation
  - d. minimise use of morticed joints
2. Beams should be provided with adequate ventilation.
3. Damp proof membranes should be used where timber is in contact with masonry.
4. Metal or plastic shields on the top and ends of laminated timber beams can exclude moisture and sunlight.
5. Arrisded edges on timber helps prevent the failure of coating systems.
6. Building overhangs will provide protection from moisture and direct sunlight.

### Protective Coatings

As previously mentioned, Parkside requires its GL products to be coated or sealed to ensure the products overall integrity. Parkside does not recommend a specific brand of product, however, there are the following options available:

- i. Oil based surface applied preservatives, in brushing and paste forms, impart fungal resistance and dimensional stability in the short term. They should be used to provide protection from the elements during construction.
- ii. Oil based stains are non-film forming and penetrate the timber to provide weathering resistance while leaving the grain semi-exposed. This protective coating should be renewed regularly if adequate protection is to be achieved.
- iii. Oil based paint systems will provide the best long term protection of laminated timber in fully exposed conditions. Paint manufacturers' instructions should be followed, but will usually recommend: One coat of oil based primer, one coat of oil based under coat two coats of oil based exterior house paint.
- iv. Acrylic paint systems combined with oil based primers and regular recoating.
- v. Clear finishes are not recommended for timber used in exposed applications due to an absence in UV filters and a propensity to break down readily in exposed situations. Special attention should be given to sealing exposed end grain at the end of beams/posts and joints. Timber laminated beams/posts in exposed applications will give excellent service life if the protective design and coating measures are maintained to limit the effect of weathering. A maintenance schedule should be documented and implemented for all structures. Coatings should be renewed in accordance with manufacturers' instructions and joint and capping details kept in good repair.

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THIS DOCUMENT SUPERSEDES ALL PREVIOUS VERSIONS



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