

## W9 GLULAM



Glulam Wood 17 02 01



Glulam (glued laminated timber) is a laminated product using multiple layers of dimensional timbers from second- and third-growth softwood or hardwood species with durable and moisture-resistant structural adhesives. Glulam is manufactured in various sizes, thicknesses, quality and finish depending on the architectural design and engineering specification required. The manufacture of glulam allows timber to be used for much longer spans, heavier loads, and curved shapes than traditional large dimensional timbers. Glulam is commonly marketed as a sustainable and renewable product that has a low carbon impact, but with versatility and strength to exceed that of large timbers, steel or concrete.

## WASTE STREAMS

### DISPOSAL

The landfilling of glulam may be the only option where the material is contaminated or where recycling or recovery markets do not exist.

### RECOVERY

Glulam can be sent to an incinerator for energy recovery.

### RECYCLE

Glulam can be recycled as Grade B or Grade C wood recycle where it is not contaminated and a market exists for this type of feedstock into new products.

### RECLAIM

Glulam products in good condition, not water damaged, uncontaminated and easily removed from other substrates may be set aside for reuse. Care should be taken not to damage materials during removal. Be aware of structural loads and complete a deconstruction method statement before removal.

## USAGE & PROBABLE LOCATIONS

Glulam has many uses in construction and furniture. In construction it is used for vertical columns, structural beams, frames, rafters and trusses, whereas in furniture it is used for framing. It has special qualities in strength and beauty, where the laminating process can create a range of curves and twists to the final product. Glulam frames, columns and beams will transfer structural load to a designed point. Glulam is increasingly found in modern buildings including schools, offices, sports structures, bridges, arches, domes, churches, shopping centres, specialist industrial buildings and concert halls.

## PERSONAL PROTECTIVE EQUIPMENT

PPE requirements indicated are for guidance purposes only. DRIDS has identified the PPE that is mandatory on all demolition

projects and ones that may be required subject to site specific Risk Assessment & Method Statement (RAMS).



The following types of PPE are non mandatory but should be considered if necessary to the specific task



## REMOVAL, SEGREGATION & STORAGE

Depending on the particular use of a glulam product, will determine how it is removed, segregated and stored. Glulam timbers that are in good condition will have a reclamation or reuse value. They should be segregated and stored flat on a suitably sized pallet or on timber skids, preferably inside a building or covered with plastic or tarpaulin sheets to keep them dry. They should also be stored away from plant movements to prevent splash damage or breakage. Glulam timbers not destined for reuse should be stored in a timber only skip for subsequent recycling or recovery.

## TOOLS

Hammer, saw, nailbar, crowbar, screwdriver, spanners, sockets, jemmy bar, chisel, electric screwdriver, electric circular saw, cranes, chains, lifting straps, elevated platforms.

## FIXTURES, FITTINGS & CONNECTIONS

Glulam timbers and frames are traditionally fixed in place with nuts-and-bolts, expansion bolts, pins, nails, dowels, plates, metal hangers, coach screws, screws or adhesive. Furniture may be free-standing, but will be connected to materials, linen and foams depending on the furnishing requirements.

## HEALTH & SAFETY

**Subject to task-specific Risk Assessment & Method Statement (RAMS).** Use correct protective equipment for removing fixings, especially bolts, pins, plates, hangers and screws. Be aware that columns, beams and frames can exert very large loads that should be fully understood before deconstruction or disassembly. Wear gloves when handling timbers with damaged edges, coated in paints or adhesives to prevent irritation, cuts and splinters. Wear eye protection when removing nails and screws with a crowbar, hammer or nailbar.

## FURTHER READING

Glued laminated timber association  
Reclamation & Reuse through Salvo  
BRE - Glulam gives beaming results  
Timber Recycling  
PAS111 Processing Timber Wastes  
Designing out Waste  
Demolition Code of Practice  
Reclaimed Products Guide

## TRAINING

Working at Height  
Manual Handling  
Safe Use of Hand Tools