

Pynepanel System 32

Pynepanel™ Main Features

Pre finished edge: As the facing edge is already surfaced, edging tape does not need to be applied once the board is cut.

Range: Carter Holt Harvey Pynepanel™ is available in many sizes and its standard thickness is 16mm. The sizes are well suited to shelving applications.

Economy: The comprehensive range allows economic cutting of boards. Carter Holt Harvey Pynepanel™ has no grain direction so there is the same strength and appearance in all directions. This reduces waste.

Ease of working: Carter Holt Harvey Pynepanel™ is easy to work with normal woodworking tools. For long production runs, tungsten-carbide tipped tools are recommended.

Ease of fixing: Most normal nail-free woodworking joints can be used.

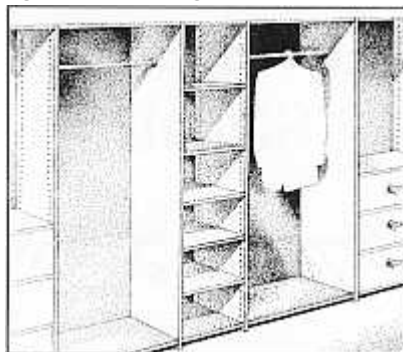
Use in moist areas: Where applications may be subjected to conditions of high relative humidity or occasional wetting, such as bathroom vanities, kitchen cupboards and Carter Holt Harvey Pynepanel™ MR should be used. Carter Holt Harvey Pynepanel™ MR should not be used in areas subject to continual wetting or continuous relative high humidity.

Identification: To help identify Carter Holt Harvey Pynepanel™ MR in the workshop, look for the blue-green core. This identification is your guarantee of having the moisture resistant product.

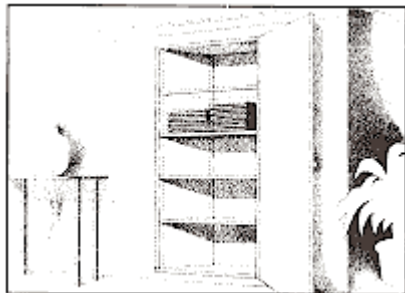
Time saving: All you need to do to install fully adjustable, built-in shelving is to fit Pynepanel™ System 32 panels in place, screw them to the wall studs or supporting framework, insert the shelving supporting lugs and pop on the shelf.

Not only are Carter Holt Harvey Pynepanel™ System 32 panels easy to install, they also save you time in finishing. The attractive white melamine surface and edge mean that there is no need to finish them with paint or stain. They are ready for use as soon as they are installed.

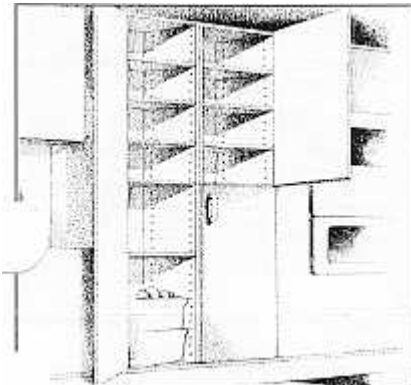
BUILT-IN WARDROBE



LINEN CUPBOARD



KITCHEN PANTRY



Stops Waste: Eliminate costly rework by taking advantage of Carter Holt Harvey Pynepanel™ System 32 panels with their precision drilled holes which remove the need to measure up for battens and ensure levels are correct.

Because the panels are pre-drilled at 32mm centres in two parallel rows along the face of each sheet, shelves can be fixed at any level between two panels.

Each Carter Holt Harvey Panel Systems Components panel is pre-edged with a matching white edge strip which helps to minimise minor impact damage.

Supporting accessories: a wide range of supporting lugs, hole caps, hinges and drawer runners and other accessories are available from hardware suppliers.

Key Applications

Carter Holt Harvey Pynepanel™ is a versatile panel for interior use in shelving, furniture and joinery applications, particularly in cupboards, wardrobes and storage applications.

Where applications may be subjected to conditions of high relative humidity or occasional wetting, Pynepanel™ MR substrate should be used. Pynepanel™ MR is ideal for applications such as bathroom vanities, kitchen cabinets and dishwasher surrounds. It should not be used in shower recesses or areas subject to regular wetting or continuous high relative humidity.

Surface Properties

Resistance to Staining: surfaces are resistant to staining from most commonly used household cleaners, chemicals and cooking substances. They are unaffected by the reagents 1-18 inclusive, as listed in AS 2925.9.

Colourfastness: Surfaces are stable and colourfast under normal indoor lighting conditions.

Some deterioration may occur, in the long term, with regular exposure to sunlight.

Precautions: Avoid direct contact with heated articles, such as lighted cigarettes or hot household utensils, or close proximity to heaters.

Cutting & Machining

How To Use:

Carter Holt Harvey Pynepanel™ is easy to work with normal woodworking tools. Some recommendations are given here.

Cutting: Use a fine-toothed, crosscut handsaw or dimensional saw. With portable saws, use a blade designed to give a clean edge when crosscutting natural timber. Alternatively, use tungsten-carbide tipped blades with alternative top-bevel-edge teeth. Care must be taken to minimise surface shipping or breakout. A sharp hand plane may be used to trim sawn edges.

Rebating or routing: Use hand or power routers, with tungsten-carbide tipped cutters for long runs. Adjust feed and cutter speeds to obtain desired balance of cut and cutter wear. Depth of cut should not be more than one-third the thickness of the board.

Production Machining: Carter Holt Harvey Pynepanel™ may be cut on circular saw benches or precision sizing machines with traversing saw carriages. The equipment should be fitted with an ancillary tungsten-carbide tipped scribing saw. Main saws with tungsten-carbide special concave or alternating flat top and bevel-tooth profiles are recommended. Preferred peripheral speeds are 50-60m/sec. Double-ended tenoners and spindle moulding machines with fixed or exchangeable tungsten-carbide tipped cutters are suitable for edge machining.

Boring or drilling: Use common timber or metal working bits. For long runs use tungsten tipped cutters or high-speed drills.

Fixing Requirements

Fixing Procedures and Installation

Screw Fixing: Screw onto supporting walls or framework using screws especially designed for use with particleboard, such as wood screws threaded the entire length, and observe the following instructions:

- Use longer and thinner screws than would normally be used for timber.
- Drill a pilot hole for the full length of the screws as shown in the table below.
- Do not over tighten screws. A drop of adhesive will help to consolidate screws.
- Do not force heavy-gauge screws into the edge of Carter Holt Harvey Pynepanel™.

	Screwing and pilot hole diameters			
Screw size	4	6	8	10
Pilot hole diameter (mm)	2.0	2.5	3.0	3.2

Load bearing: Maximum loads the boards will support in shelving applications depend on board span, width and thickness, and on the fixing or support system used.

Maintenance

The melamine resin surface of Carter Holt Harvey Pynepanel™ is highly resistant to staining by normal household reagents. It is always best, however, to remove splashes and spillages quickly by wiping the surface clean with a damp cloth. Soap or detergent and water will generally clean the surface and no other maintenance should be necessary. Do not use harsh abrasives.

Product Range & Physical Properties

Product Details

Thickness: 16mm Standard and MR substrates for Carter Holt Harvey's:

- Pynepanel™
- Pynepanel™ System 32
- Pynepanel™ Thick Edge

Dimensions of standard sheets:

	Pynepanel™ Standard substrate	Pynepanel™ MR substrate
16mm	3600mm x 595mm 3600mm x 445mm 3600mm x 295mm 2400mm x 595mm 2400mm x 445mm 2400mm x 295mm	3600mm x 595mm 3600mm x 445mm 3600mm x 295mm 2400mm x 595mm 2400mm x 445mm
	Pynepanel™ System 32 Standard substrate	
16mm	2400mm x 595mm 2400mm x 445mm 1800mm x 595mm 1800mm x 445mm	
	Pynepanel™ Thick Edge Standard Substrate	Pynepanel™ Thick Edge MR Substrate
16mm	3600mm x 595mm 3600mm x 445mm 3600mm x 295mm 2400mm x 595mm 2400mm x 445mm 2400mm x 295mm	3600mm x 595mm 3600mm x 445mm 3600mm x 295mm 2400mm x 595mm 2400mm x 445mm

Tolerances:

Length and width nominal sizes: length + 3mm, - 0mm width +/-1.5mm

Thickness: +/- 0.3mm

Squareness: 2mm per metre length of diagonal (difference between diagonals)

Edge Straightness: 1.5mm per metre length (deviation from a straight line)

Flatness: 1.5mm per metre length

Holes: Diameter 5mm, Spacing 32mm, depth 5mm

Properties

Carter Holt Harvey Pynepanel™ is manufactured to comply with the requirements for particleboard in AS/NZS 1859.1.

Typical values for 16mm thick board are given below.

Property	Unit	Typical Value	Typical Value
Bending strength (modulus of rupture)	MPa	17	18
Stiffness (modulus of elasticity)	MPa	2500	2700
Internal bond strength	kPa	600	750
Moisture content (ex factory)	%	7	8
Thickness Swell (24 Hour)	%	10	4
Thickness Swell after wet cycling	%	-	8
Screw holding: Surface	N	900	1000
Edge	N	600	650

Storage

Carter Holt Harvey Pynepanel™ sheets should be stored under cover and kept clear of the ground on timber bearers spaced at 450mm centres, with end bearers located 75mm from each end of the stack.