

# DECORATIVE INTERIOR LININGS



PRODUCT  
PROFILE  
DESIGN



SPECIFICATION  
GUIDE



stylish solutions for walls and ceilings

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## How it all began

Easycraft commenced in 1986 based on the need for a product that could provide an alternative to the original timber vertical joint planks used in the construction of Queensland Homes built between 1870 and 1920.

Renovators wanted to keep the authentic look of the original Queenslander but use a product that would overcome the many shortcomings and inconsistencies of the timber plank.

Easycraft began manufacturing (by hand) a VJ panel that was quicker and easier to install, based on a more durable substrate, had clean grooved lines and included a patented hidden joining system.

Since that humble beginning they have continued to develop stylish, innovative products to meet the ever changing market needs for homes and commercial buildings across Australia.

Easycraft is still owned by its original owner and the Bloch Family continue to manufacture quality products using all Australian sourced materials.



## What's happening today

The current range of products still provide for the renovation of historical buildings but also include products that are applicable to today's design and construction requirements. Products that are versatile, being suited to a wide variety of applications, including commercial, hospitality, government, retail and residential.

At Easycraft Australia, we believe no project is too large or too small to take advantage of the versatility that our products can deliver; from the largest commercial projects to the smallest boutique jobs, our team is committed to providing outstanding, fuss-free service and advice.

We have a long history of working with Architects, Designers and Specifiers to create and tailor bespoke products to meet their unique requirements.

With Easycraft, it is easy to create beautiful spaces with our comprehensive range of wall and ceiling panelling.

- Add warmth, visual interest and architectural flair to any space
- Achieve an innovative and distinctive look for homes and commercial buildings
- Dramatically transform internal and external living spaces
- Obtain advice, tips and instructions to assist with stress-free installation



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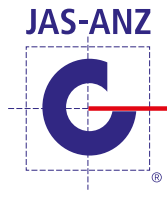
# accreditations

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## Environmental Commitment

Easycraft Australia is committed to sourcing and using the best available environmentally sustainable timber for use in our wall & ceiling products and as such operates an AS 4707:2014 – Chain of Custody compliant management system for certified wood and forest products. Our core suppliers operate under the same Standard and have Chain of Custody Accreditation.

The Australian Standard is part of the Australian Forestry Certification Scheme which is endorsed by the Programme for the Endorsement of Forest Certification, in accordance with the PEFC International Standard – PEFC ST 2002:2013, Chain of Custody of Forest Based Products.



## Building Code of Australia

Easycraft comply with the thermal, acoustic & fire requirements of the National Construction Code. Easycraft has formally tested their products and have available tests results.



## Greenfirst

Laminex is proud to be the first business in our category to receive an Ecospecifier Global GreenTag® dual certification for the product that is used in the manufacture of Easycraft Moisture Resistant Panels (ECP\_MR).



## Wood Naturally

Easycraft is a proud promoter of the benefits of using wood based products, not only from an environmental perspective but also for the use, look, feel and additional hard wearing benefits.

# application matrix




	GENERAL PURPOSE INTERIOR	WET AREA INTERIOR	SEMI EXTERIOR
Feature walls	✓		
Feature ceilings	✓		
Alfresco / Portico ceilings			✓
Bathrooms		✓	
Kitchens	✓	✓	✓
Entrance / Hallways	✓		
Boardroom / Media rooms	✓		
Auditoriums	✓		
Office fit outs	✓		
Gable ends / Façades			✓
Retail	✓	✓	
Shopping centres	✓	✓	✓
Shop fit outs	✓	✓	✓
Restaurants	✓	✓	✓
Architectural ceilings	✓		
Bars	✓	✓	✓
Outdoor kitchens			✓
Period homes	✓	✓	✓
Eaves			✓
Bespoke	✓	✓	✓

## product legend




### Applications

-  General Purpose Interior Walls & Ceilings (Group 3)
-  Wet Area Interior Walls & Ceilings (Bathroom, Laundry, Kitchen)
-  Semi Exterior Walls & Ceilings (Alfresco, Eaves, Veranda)

### Features

-  Pre-Primed (Commercial Grade Undercoat)
-  Base Material Supplied Raw with No Undercoat or Finish
-  Easyjoin Tongue & Groove Hidden Joining System

### Options

-  Special Made-to-Order Sizes and Profile Centres Available
-  Clear Lacquer Final Coat Applied (Interior Use)
-  Tinted White Wash Lacquer Coat Applied (Interior Use)
-  Fire Rated Interior Wall & Ceilings (Group 1)  
Subject to board availability.

# features and benefits

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## Australian Made

All our raw materials are produced by Australian manufacturers, our processing and painting is conducted locally. Easycraft Australia has a national sales & distribution network to ensure that our products can be provided to any renovation, extension, residential or commercial construction site throughout Australia.

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## Point of Difference

For years buildings have been designed with the use of plasterboard as an internal lining, providing clean and sterile environments. Architects and Interior Designers now have a flexible choice with Easycraft panelling.

With profiles that cannot be attained by traditional lining manufacturers (plasterboard, cement sheet & lining boards) Easycraft provide design flexibility to be able to create environments that match period styles or designs with a more contemporary feel.

Architects and Interior Designers now have a wall lining material that provides them with linear lines of their choosing. When applied horizontally or vertically it creates a visual illusion of a wider and taller environment. With the array of sizes offered you can create an environment using Easycraft panels as a point of difference with flexibility and choice.

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## Ease of Installation

Easycraft's *easyjoin* system provides a means to join one board to the next easily and seamlessly. The *easyjoin* system allows you to install your selected profile with no sign of interruption. Easycraft panels are easy to install, so much so that we have significant popularity among DIY home improvers.

Within commercial projects, it can be installed by one of the following contractors; Carpenter, Plastering Contractor or Joinery Contractor.

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## Easy to Finish

Easycraft panels come pre-primed (using a commercial grade primer) ready for final coat application, effectively reducing labour time on-site by up to a third.

Easycraft offer other alternative finishing options, including a clear and white wash lacquer coat, ready to install. See easyclear product page 25 for more information.

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## Tough and Impact Resistant

Out performs plasterboard for impact resistance and abrasion.

Easycraft panels are 300% more impact resistant than standard plasterboard and 50% better than impact resistant plasterboard which makes Easycraft panels an ideal choice for use in; corridors, foyers, classrooms, offices, retail (shops and restaurants), games rooms and garages.

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# features and benefits

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## Quality

Easycraft panels provide the natural feel of timber without the defects, imperfections, knots and grain inconsistencies.

Easycraft panels are manufactured with a consistent density, thickness, width and length, and are suitable for use with fixing nails and countersunk screws. The panels can be loaded with significantly more weight than plasterboard.

With Easycraft *easyjoin* system and the very nature of our panels, they will not become brittle or crack over time. Easycraft panels will stand the test of time and movement, and will not require patching and painting in the distant future.

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## Efficient & Cost Effective

Installed (providing a primed surface) three times faster than installed and primed plasterboard. Twenty times faster when drying time is included.

Convenient sizes are available, limiting the requirement for cutting on-site, meaning significantly less waste, less mess and less labour costs.

By comparison to alternative feature walls (timber, rendered, textured paint) Easycraft panels are approximately the same cost as supplied and installed plasterboard!

Making it a cost effective way to provide a wall or ceiling feature or providing a quicker installation alternative to plasterboard.

Compared with traditional forms of lining boards, a carpenter is required to install 8 to 9 boards versus 1 sheet of Easycraft (64 nails vs 6-8 nails). Significantly less time required for installation and less time required for a painter to patch and paint thereafter.

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## Acoustic Performance

Easycraft products contribute to the performance of the building envelope. Easycraft have an application guide, to provide specifiers with tested wall systems that comply with National Construction Code requirements. Easycraft can support Specifiers requiring specific performances, tailored to your environment.

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## Bespoke

Easycraft collaborates closely with Architectural firms and Interior Designers to create bespoke finishes. Easycraft enjoys the ability to be part of the Architects or Interior Designers vision and design process to create a finished product of their imagination.

Easycraft has access to a large range of materials available in a range of thicknesses that provide flexibility and performance choices with your design options.

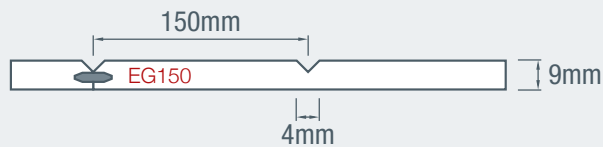
***Your design is only limited by your imagination...***

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# easygroove

**easygroove** presents as a modern, open profile and is available in 3 optional centre width spacings. The panels not only look great, provide a tough surface finish and also incorporate the hidden tongue and groove joining system.

## Profile



- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – save on ongoing maintenance and repairs
- *Easyjoin* system – no joint sealing required, up to 5% better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

**Bespoke:** Variable profile (centre to centre) spacings can be produced for this product as a bespoke design. Refer to page 26 for more detail.

**Note:** Profile runs the length of the panel.



## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	EG150 Product Code	EG300 Product Code	EG Random Product Code	Application	Features	Options
9mm	2400mm	1200mm	19.3kg/sheet	G09MR24-150	G09MR24-300	G09MR24-RAN	GP	PR EJ	SO FR
9mm	3000mm	1200mm	24.2kg/sheet	G09MR30-150	G09MR30-300	G09MR30-RAN	GP	PR EJ	SO FR
9mm	3600mm	1200mm	29.0kg/sheet	G09MR36-150	G09MR36-300	G09MR36-RAN	GP	PR EJ	SO
9mm	4500mm	1200mm	36.2kg/sheet	G09MR45-150	G09MR45-300	G09MR45-RAN	GP	PR EJ	

## Suitable for

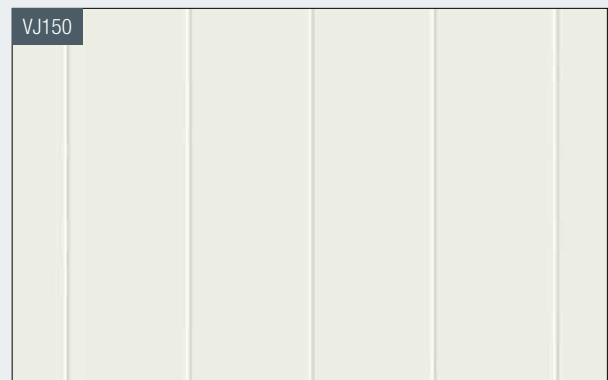
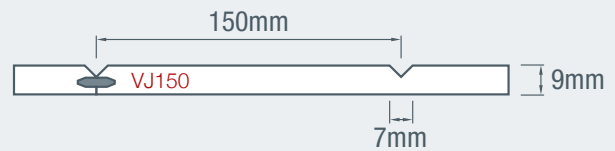
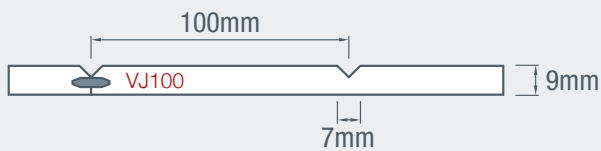
- Internal wall and ceiling linings
- When renovating it can be applied directly over plasterboard walls
- We recommend **easyclad** as the best suited base board for wet area applications. Refer to page 17 for more details.

For more technical product information refer page 46, material reference summary.



**easyvj** is our most popular wall and ceiling feature panel being used in both traditional and newly built homes. It will give living spaces a truly unique and contemporary feel. Can be used vertically, horizontally or diagonally as a feature wall, at dado rail height and even on ceilings.

## Profile



**Note:** Profile runs the length of the panel.

- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

**Bespoke:** Variable profile (centre to centre) spacings can be produced for this product as a bespoke design. Refer to page 26 for more detail.



## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	VJ100 Product Code	VJ150 Product Code	Application	Features	Options
9mm	900mm (dado wall)	1200mm	7.3kg/sheet	V09MR09		GP	PR EJ	SO FR
9mm	2400mm	1200mm	19.3kg/sheet	V09MR24	VJ150MR24	GP	PR EJ	SO FR
9mm	2700mm	1200mm	21.7kg/sheet	V09MR27		GP	PR EJ	SO FR
9mm	3000mm	1200mm	24.2kg/sheet	V09MR30	VJ150MR30	GP	PR EJ	SO FR
9mm	3600mm	1200mm	29.0kg/sheet	V09MR36	VJ150MR36	GP	PR EJ	SO
9mm	4500mm	1200mm	36.2kg/sheet	V09MR45	VJ150MR45	GP	PR EJ	

## Suitable for

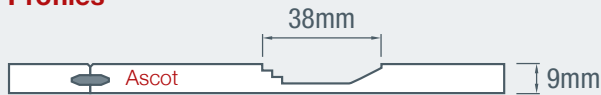
- Internal wall and ceiling linings
- When renovating it can be applied directly over plasterboard walls
- Above Dado Rail height – Add **easypanel** for a complimentary smooth wall finish above
- Great alternative to traditional plasterboard finish
- We recommend **easyclad** as the best suited base board for wet area applications. Refer to page 17 for more details.

For more technical product information refer page 46, material reference summary.



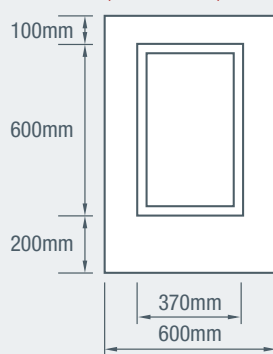
The classic **easyascot** is perfect for that special room, adding an elegant touch. Combined with an easydado rail and easypanel, the look is luxury all the way. Panels come pre-primed both sides with industrial grade undercoat for easy final coat application.

## Profiles

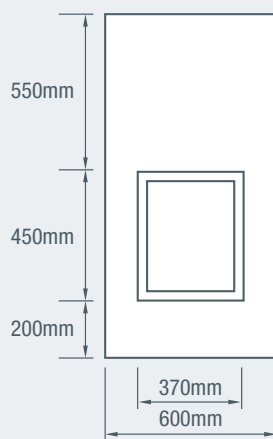


- Pre-primed requiring minimal preparation for final coat finishing
- Pre-primed reversible back (no profile) to use as end fill for gaps less than 600mm
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage

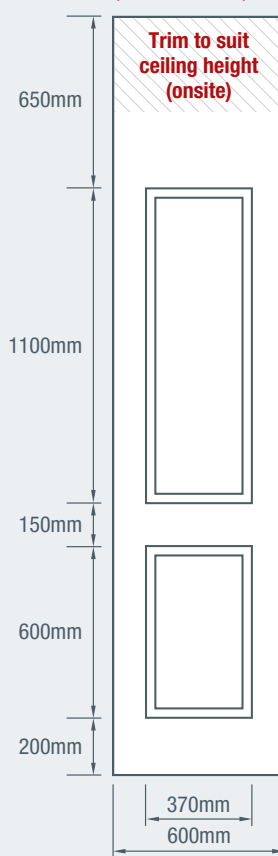
### Dado wall panel (ASDP900)



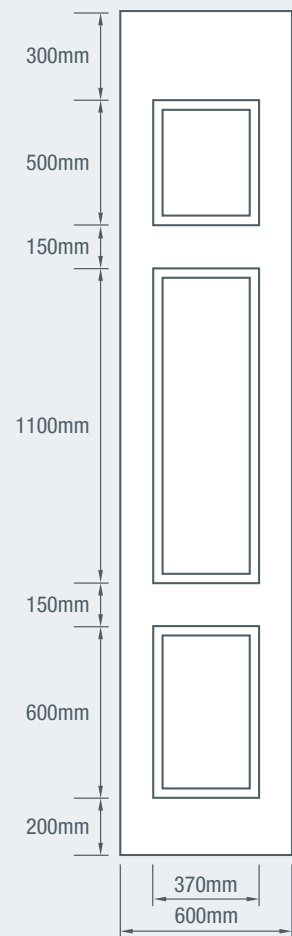
### Window panel (ASWP1200)



### Full wall panel (ASFW2700)



### Full wall panel (ASFW3000)



## Specifications

Ascot Panel Type	Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	Product Codes	Application	Features
Dado Wall Panel	9mm	900mm	600mm	3.6kg/sheet	ASDP900	GP	PR EJ
Window Panel	9mm	1200mm	600mm	4.8kg/sheet	ASWP1200	GP	PR EJ
Full Wall Panel	9mm	2700mm	600mm	10.8kg/sheet	ASFW2700	GP	PR EJ
Full Wall Panel	9mm	3000mm	600mm	12.0kg/sheet	ASFW3000	GP	PR EJ

## Suitable for

- Internal feature walls complimented with **easydado** top rail
- When renovating it can be applied directly over plasterboard walls
- Great alternative to traditional plaster and joinery panel styles

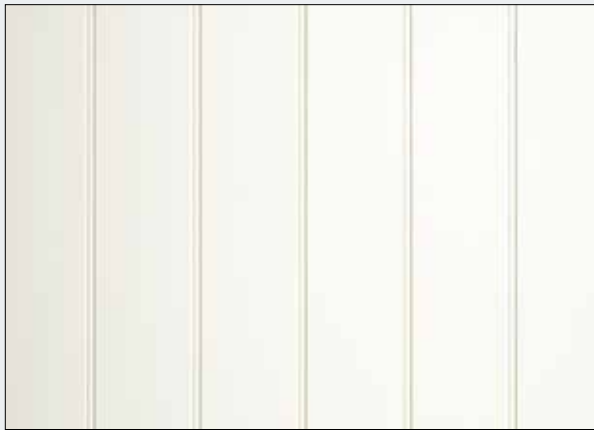
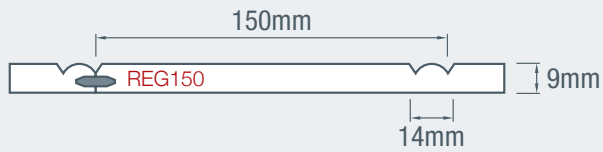
For more technical product information refer page 46, material reference summary.





**easyregency** looks fantastic in the traditional home or as a feature in a contemporary home. This design will enhance any hallway, bedroom or dining room wall as a dado height or full length wall.

## Profile



**Note:** Profile runs the length of the panel.

- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard



## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	Product Code	Application	Features	Options
9mm	900mm (dado wall)	1200mm	7.3kg/sheet	R09MR09	GP	PR EJ	FR
9mm	2400mm	1200mm	19.3kg/sheet	R09MR24	GP	PR EJ	FR
9mm	3000mm	1200mm	24.1kg/sheet	R09MR30	GP	PR EJ	FR
9mm	3600mm	1200mm	29.0kg/sheet	R09MR36	GP	PR EJ	
9mm	4500mm	1200mm	36.2kg/sheet	R09MR45	GP	PR EJ	

## Suitable for

- Internal wall and ceiling linings
- When renovating it can be applied directly over plasterboard walls
- Above Dado Rail height – add **easypanel** for a complimentary smooth wall finish above
- We recommend **easyclad** as the best suited base board for wet area applications. Refer to page 17 for more details.

For more technical product information refer page 46, material reference summary.





# easypanel

**easypanel** is the ideal alternative to plasterboard offering a smooth, tough impact resistant surface. It is perfect for those high traffic family areas or media rooms where noise may be an issue. It can also be used in garages and storage areas for added strength and hanging support.

## Profile



- A smooth face with a micro-ridged edge detail shows the joint as a feature
- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	Product Code	Application	Features	Options
9mm	2400mm	1200mm	19.3kg/sheet	EP0924	GP	PR EJ	SO FR
9mm	3000mm	1200mm	24.2kg/sheet	EP0930	GP	PR EJ	SO FR
9mm	3600mm	1200mm	29.0kg/sheet	EP0936	GP	PR EJ	SO
9mm	4500mm	1200mm	36.2kg/sheet	EP0945	GP	PR EJ	

## Suitable for

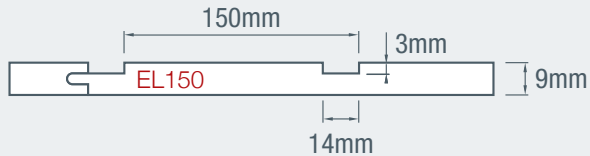
- Internal wall and ceiling linings
- Above Dado Rail – grooved feature wall panelling
- Alternative to plasterboard in areas of high traffic, impact and/or where additional surface density is required
- We recommend **easyclad** as the best suited base board for wet area applications. Refer to page 17 for more details.

For more technical product information refer page 46, material reference summary.



The **easyline** design reflects the classic look of shiplap timber cladding and comes in a 1200mm panel width, eliminating those annoying joints throughout. The panels include the easy to use Tongue and Groove joining system allowing a quick and easy installation process.

## Profiles



**Note:** Profile runs the length of the panel.

- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- Easy to use Tongue and Groove joining system
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	Product Code	Application	Features	Options
9mm	2400mm	1200mm	19.3kg/sheet	EL0924	GP	PR EJ	SO FR
9mm	3000mm	1200mm	24.2kg/sheet	EL0930	GP	PR EJ	SO FR
9mm	3600mm	1200mm	29.0kg/sheet	EL0936	GP	PR EJ	SO
9mm	4500mm	1200mm	36.2kg/sheet	EL0945	GP	PR EJ	

## Suitable for

- Internal wall and ceiling linings
- When renovating it can be applied directly over plasterboard walls
- Great alternative to traditional plasterboard finish



For more technical product information refer page 46, material reference summary.

# easybeaded

The traditional profile of **easybeaded** matches many classic, older style wall coverings. It also delivers a softer profile to the regency and VJ profiles in a modern application having a narrower profile.

## Profiles



**Note:** Profile runs the length of the panel.

- Pre-undercoated finish requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

**Bespoke:** Variable profile (centre to centre) spacings can be produced for this product as a bespoke design. Refer to page 26 for more detail.

## Specifications

Thickness	Length	Width	Weight (6.7kg/m <sup>2</sup> )	Product Code	Application	Features
9mm	2400mm	1200mm	19.3kg/sheet	B09MR24	GP	PR EJ
9mm	3000mm	1200mm	24.2kg/sheet	B09MR30	GP	PR EJ
9mm	3600mm	1200mm	29.0kg/sheet	B09MR36	GP	PR EJ
9mm	4500mm	1200mm	36.2kg/sheet	B09MR45	GP	PR EJ

## Suitable for

- Internal wall and ceiling linings
- Above Dado Rail height – mixed with easyascot or other wall panels
- Alternative to plasterboard in areas of high traffic, impact and/or where additional strength is required
- We recommend **easyclad** as the best suited base board for wet area applications. Refer to page 17 for more details.



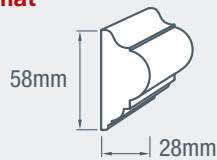
For more technical product information refer page 46, material reference summary.

# easydado

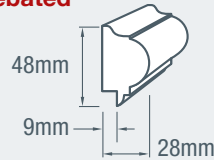
**easydado** is designed to provide the perfect finish to 900mm dado wall height installations, whether using easyvj, easyregency or easyascot. Available in flat or rebate profiles to suit your project.

## Profiles

**easydado flat**

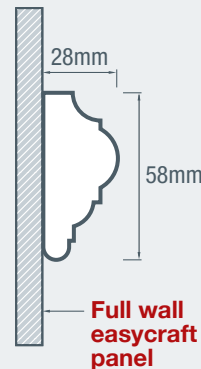


**easydado rebated**

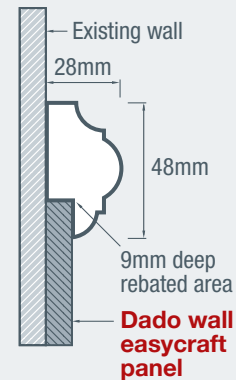


## Installed profile - cross section

**easydado flat**



**easydado rebated**



- Manufactured from Clear Pine
- Pre-undercoated finish requires minimal preparation before final painting
- Two profiles available – Rebated and Flat
- Straight and true moulding rail
- Rebated to suit 9mm Easycraft panels

## Specifications

Profile	Length	Width	Weight	Product Code	Application	Features
Rebated	3600mm	48mm x 28mm	3.4kg/length	DR48X28R	GP	PR
Flat	3600mm	58mm x 28mm	3.4kg/length	DR58X28F	GP	PR

## Suitable for

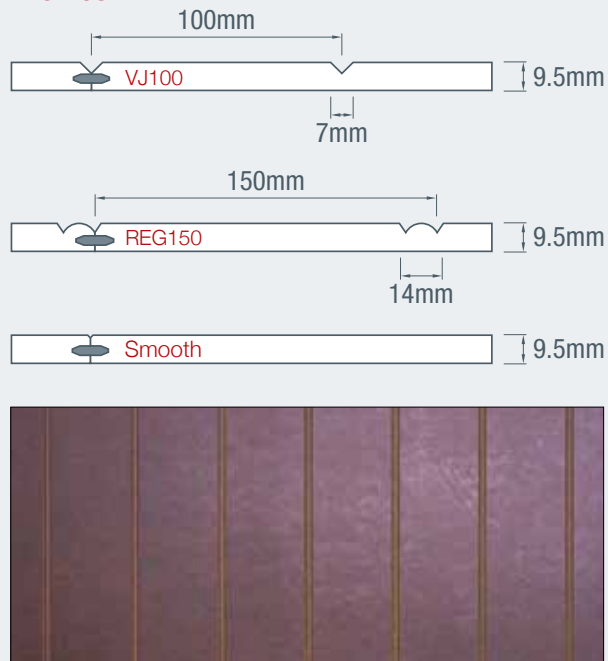
- **easydado rebated** for a professional finish to the join between the dado wall panels and existing wall lining
- **easydado flat** for use as a decorative dado rail or picture hanging rail feature



For more technical product information refer page 46, material reference summary.

**easyclad** is recommended for use in high moisture areas (bathrooms, laundries, kitchens) and semi-external (undercover) applications. It is made from 9.5mm reconstituted hardwood, has excellent environmental credentials and comes pre-primed on both sides with a commercial grade undercoat.

## Profiles



- Available in various patterns – VJ (stocked), Regency (made to order) & Smooth (made to order)
- Manufactured from 9.5mm Hardboard – contains no glues or resins
- Pre-undercoated finish on both sides requires minimal preparation before final painting
- Sizes are nominal and can vary slightly in width and length
- Impact resistant – saving on future maintenance and repairs
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

**Note:** Profile runs the length of the panel.

## Specifications

Thickness	Length	Width	Weight (10.7kg/m <sup>2</sup> )	VJ100 Product Code	REG150 Product Code	Smooth Product Code	Applications	Features	Options
9.5mm	2745mm	1200mm	32.9kg/sheet	XV0927	XR0927	XS0927	GP WA SE	PR EJ	SO RA CL
9.5mm	3660mm	1200mm	43.9kg/sheet	XV0936	XR0936	XS0936	GP WA SE	PR EJ	SO RA CL

## Suitable for

- Internal wall and ceiling linings
- Semi-external wall or ceiling linings undercover of roof or verandah
- Soffit linings

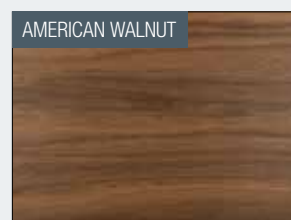
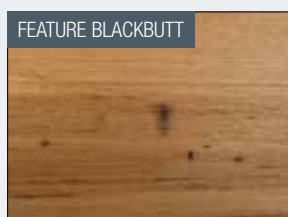
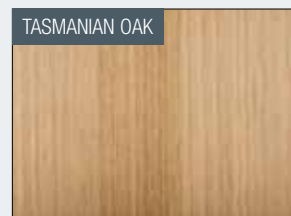
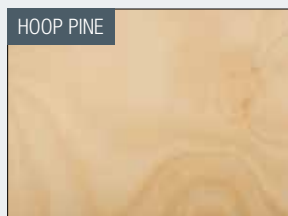
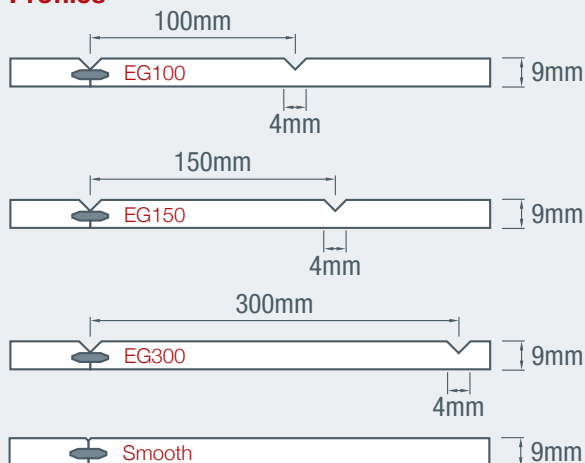
**Note:** **easyclad** is not suitable for fully exposed external applications or directly subjected to water. If being installed into a wet area refer to guidelines for installing Easycraft wall linings in bathrooms, laundries and kitchens on our website.

For more technical product information refer page 46, material reference summary.



**easyveneer** will save you time and money when wanting to create feature timber walls or ceilings. No knots or the inconsistent quality of timber boards. This is the latest in modern timber veneer finishes available in smooth and VG (narrow VGroove) profiles.

## Profiles



- Suitable for internal wall and ceiling linings
- Available in various centres, 100mm, 150mm & 300mm
- Hoop Pine ply in AC grades and 9mm & 12mm
- Veneers available in 10mm & 13mm (to order) thickness
- Ready for onsite varnish/staining or can be supplied clear lacquered ex factory
- Sizes are nominal and can vary slightly in width and length
- *Easyjoin* system – no joint sealing required, better material usage
- Consistent board face – no knot holes, splitting, warping or splinters
- Easier and faster to install than timber planks or plasterboard

## Specifications

Veneer	Thickness	Length	Width	Weight (7.2kg/m <sup>2</sup> )	Product Code	Application	Features	Options
Hoop Pine	9mm & 12.5mm	2400mm	1200mm	19.3kg/sheet (9mm)	PLEG0924**	GP	RA EJ	SO CL FR
Tas Oak	10mm & 13mm	2400mm	1200mm	21kg/sheet (10mm)	TASEG1024**	GP	RA EJ	SO CL FR
Feature Blackbutt	10mm	2400mm	1200mm	21kg/sheet	FBEG1024**	GP	RA EJ	SO CL FR
American Oak	10mm	2400mm	1200mm	21kg/sheet	AOEG1024**	GP	RA EJ	SO CL FR
American Walnut	10mm	2400mm	1200mm	21kg/sheet	AWEG1024**	GP	RA EJ	SO CL FR

**CL** \*Lacquer finish is an additional cost and must be noted when product ordered.

**SO** \*\*Profile type and board thickness to be confirmed on order.

For more technical product information refer page 46, material reference summary.





# expression series

The **expression series** range of decorative panelling delivers the latest in contemporary styling, utilising a large range of material options. You may want to paint finish to suit your overall room colour pallet or choose from one the latest in warm timber veneers.

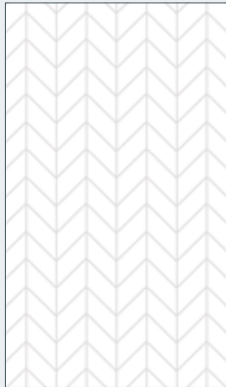
This range will create a unique expression of you and will leave a lasting impression on others.

## Patterns

Honeycomb



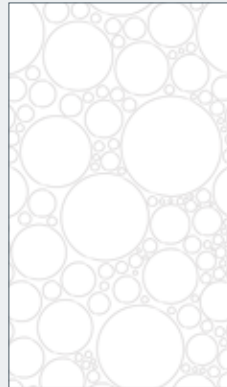
Chevron



Roman Brick



Circles



Cobblestone





# expression series

## Specifications

### EASYCRAFT GENERAL PURPOSE INTERIOR

Material	Pattern	Length	Width	Thickness	Weight (7.2 kg/m <sup>2</sup> )	Primed Finish Code	Application	Features
PRIMED	Honeycomb	2720mm	1200mm	9mm	21.9kg/sheet	EX27 MR-HON	GP	PR EJ
	Chevron	2720mm	1200mm	9mm	21.9kg/sheet	EX27 MR-CHE	GP	PR EJ
	Roman Brick	2720mm	1200mm	9mm	21.9kg/sheet	EX27 MR-ROM	GP	PR EJ
	Circles	2720mm	1200mm	9mm	21.9kg/sheet	EX27 MR-CIR	GP	PR EJ
	Cobblestone	2720mm	1200mm	9mm	21.9kg/sheet	EX27 MR-COB	GP	PR EJ

### EASYCRAFT WET AREA INTERIOR & SEMI EXTERIOR

Material	Pattern	Length	Width	Thickness	Weight (10.7 kg/m <sup>2</sup> )	Primed Finish Code	Application	Features
PRIMED	Honeycomb	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-HON	WA SE	PR EJ
	Chevron	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-CHE	WA SE	PR EJ
	Roman Brick	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-ROM	WA SE	PR EJ
	Circles	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-CIR	WA SE	PR EJ
	Cobblestone	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-COB	WA SE	PR EJ

### EASYCRAFT TEXTURED SURFACE - Only available in the Cobblestone Pattern

Material	Pattern	Length	Width	Thickness	Weight (10.7 kg/m <sup>2</sup> )	Raw Finish Code	Application	Features	Options
RAW & CLEAR FINISH	Cobblestone	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-COB-RA	GP WA SE	RA EJ	CL
PRIMED	Cobblestone	2745mm	1200mm	9.5mm	35.3kg/sheet	EX27 CL-COB-RA	GP WA SE	RA EJ	

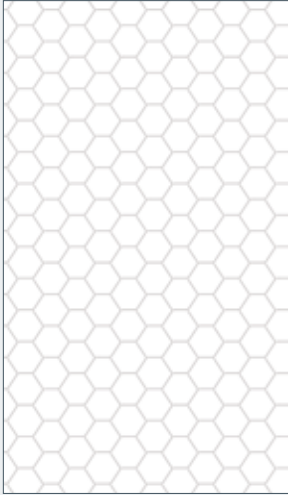
- GP General Purpose interior.
- WA For high moisture and humidity areas such as Bathrooms, Kitchens & Laundries.
- SE Suitable for semi-exterior wall & ceiling linings (eaves, alfresco).
- PR Comes pre-primed ready for you to add your final paint finish.
- EJ Easyjoin system included.
- RA Available in Raw ready for you to apply your stain or finish onsite.
- CL We also provide the option to have a Clear Lacquer Finish applied (ex factory) ready to install.



# expression series

## EASYCRAFT GENERAL PURPOSE INTERIOR - VENEER

Honeycomb



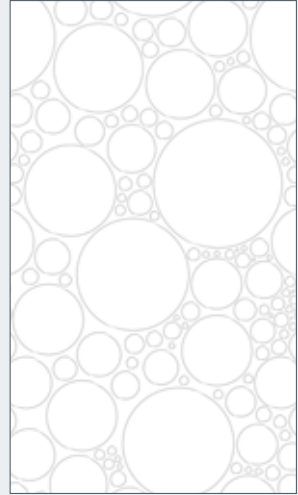
Chevron



Roman Brick



Circles



# expression series

## Specifications

### EASYCRAFT GENERAL PURPOSE INTERIOR - VENEER

#### Feature Blackbutt

Veneer	Pattern	Length	Width	Thickness	Weight (7.2 kg/m <sup>2</sup> )	Raw Finish Code	Application	Features	Options
RAW & CLEAR FINISH	Honeycomb	2400mm	1200mm	10mm	21kg/sheet	EX24 FB-HOC	GP	RA EJ	CL
	Chevron	2400mm	1200mm	10mm	21kg/sheet	EX24 FB-CHE	GP	RA EJ	CL
	Roman Brick	2400mm	1200mm	10mm	21kg/sheet	EX24 FB-ROM	GP	RA EJ	CL
	Circles	2400mm	1200mm	10mm	21kg/sheet	EX24 FB-CIR	GP	RA EJ	CL

#### American Walnut Veneer

Veneer	Pattern	Length	Width	Thickness	Weight (7.2 kg/m <sup>2</sup> )	Raw Finish Code	Application	Features	Options
RAW & CLEAR FINISH	Honeycomb	2400mm	1200mm	10mm	21kg/sheet	EX24 AW-HOC	GP	RA EJ	CL
	Chevron	2400mm	1200mm	10mm	21kg/sheet	EX24 AW-CHE	GP	RA EJ	CL
	Roman Brick	2400mm	1200mm	10mm	21kg/sheet	EX24 AW-ROM	GP	RA EJ	CL
	Circles	2400mm	1200mm	10mm	21kg/sheet	EX24 AW-CIR	GP	RA EJ	CL

#### American Oak Veneer

Veneer	Pattern	Length	Width	Thickness	Weight (7.2 kg/m <sup>2</sup> )	Raw Finish Code	Application	Features	Options
RAW & CLEAR FINISH	Honeycomb	2400mm	1200mm	10mm	21kg/sheet	EX24 AO-HOC	GP	RA EJ	CL
	Chevron	2400mm	1200mm	10mm	21kg/sheet	EX24 AO-CHE	GP	RA EJ	CL
	Roman Brick	2400mm	1200mm	10mm	21kg/sheet	EX24 AO-ROM	GP	RA EJ	CL
	Circles	2400mm	1200mm	10mm	21kg/sheet	EX24 AO-CIR	GP	RA EJ	CL

- GP** General Purpose interior.
- EJ** Easyjoin system included.
- RA** Available in Raw ready for you to apply your stain or finish onsite.
- CL** We also provide the option to have a Clear Lacquer Finish applied (ex factory) ready to install.



**Easycraft's** easyscreen is ideal for use in commercial and residential applications.

The Mini range of decorative screens are perfect when wanting a unique look to finish off a feature wall or entrance area. The use of multiple panels, both vertically and horizontally are an easy way of producing a creative, visual impact. The Mini range are great for smaller feature partitioning or simply used as wall art décor.

## Profiles - Mini

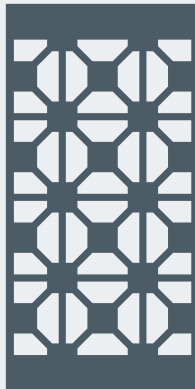
Halo Mini



Nature Mini



Retro Mini



Studio Mini



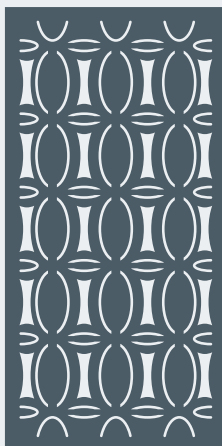
### Suitable for

- Unique look to finish off a feature wall or entrance area
- Use of multiple panels, both vertically and horizontally are an easy way of producing a creative visual impact
- Smaller feature partitioning or simply used as wall art décor

The Standard is suitable for use in undercover areas such as patios and pergolas, providing a unique backdrop to a BBQ area or to create personal private spaces around the home or office. They come pre-primed ready to paint so you can add your own final finish to compliment your overall colour pallet.

## Profiles - Standard

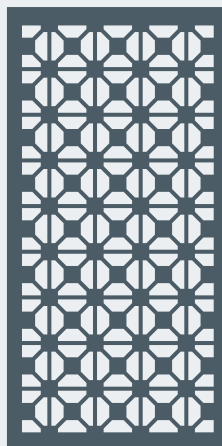
Halo Standard



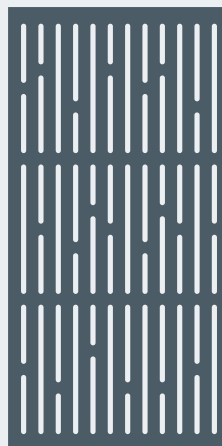
Nature Standard



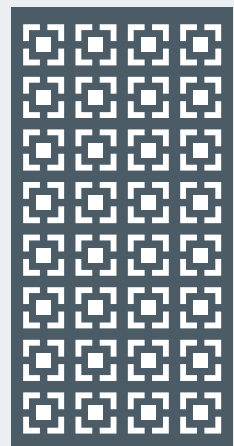
Retro Standard



Studio Standard



Cube Standard



### Suitable for

- Privacy Screening in interior Commercial and Residential Applications
- Undercover areas such as patios and pergolas
- Unique backdrop to a BBQ area
- Personal private spaces around the home or office



## Specifications - Mini

Thickness	Length	Width	Product Codes	Weight	Application	Features
9mm	1200mm	600mm	ES09MR12	5kg/sheet	GP	PR
9.5mm	1200mm	600mm	ES09CL12	8kg/sheet	SE	PR

**Note:** When ordering use Product Code & Design Name



- All screens come with a primer coat to both sides ready for final coat finish
- Board sizes are nominal and can vary (slightly) in width and length
- Any framing used for mounting purposes must be straight and true
- If hanging screens ensure your support structure is sufficient to handle the total combined screen weight
- Installation fittings or hanging accessories are to be purchased separately
- Images shown are representative only, top and bottom border will be larger on actual sheet to allow for trimming

## Specifications - Standard

Thickness	Length	Width	Product Codes	Weight	Application	Features
12mm	2720mm	1214mm	ES12MR27	28kg/sheet	GP	PR
9.5mm	2745mm	600mm	ES09CL27	28kg/sheet	SE	PR

**Note:** When ordering use Product Code & Design Name



# easyclear coatings

Easycraft offers a range of high quality commercial grade timber coating/surface finishes to suit your application including prefinished panels ready to install.

Easycraft finishes not only provide a clear protective surface but offer a matt finish that highlights the timber veneer grain.

## Surface Coating Options

Pre-primed



Commercial grade undercoat applied, ready for your onsite final coat finish.

Clear lacquer



Clear matt finish with two coats to front and one coat to back. Perfect for interior wall and ceiling applications.

White wash



Tinted lacquer finish producing a limes green effect, enhancing ply grain and added protection against yellowing.

Clear premium



Clear finish with 3 coats to front, 1 coat to back. Producing a richer finish, more suited for wall applications in high traffic areas.



# bespoke product

## Your design is only limited by your imagination...

Easycraft collaborates closely with Architectural firms and Interior Designers to create bespoke finishes. Easycraft enjoys the ability to be part of the Architects or Interior Designers vision and design process to create a finished product of their imagination.

Easycraft has access to a large range of materials available in a range of thicknesses that provide flexibility and performance choices with your design options.

Please contact your Easycraft Representative to discuss your ideas.

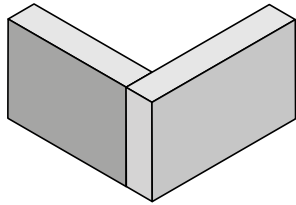
## The Bespoke Design process



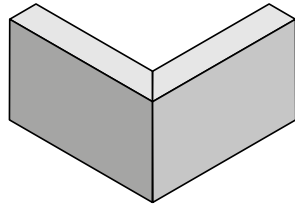


# finishing options & examples

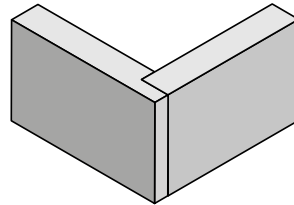
## Products to compliment & finish Easycraft Wall and Ceiling panels



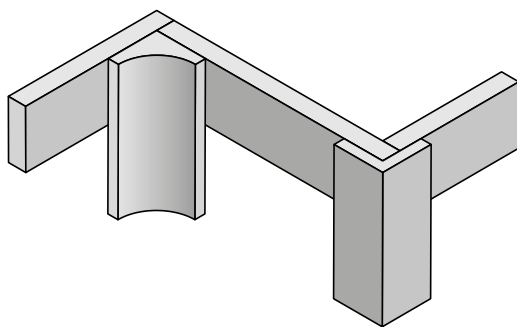
Butt



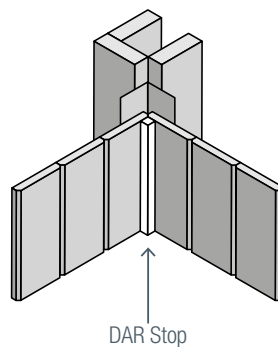
Mitre



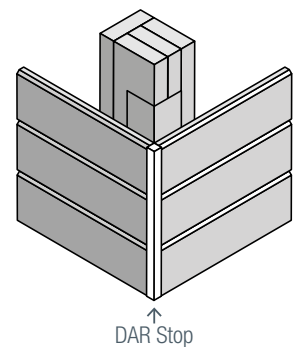
Rebated



Internal and external corner moulding

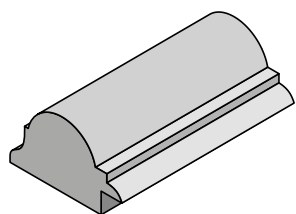


Internal and external corners using DAR Stops

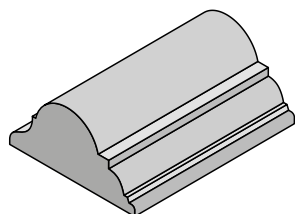


DAR Stop

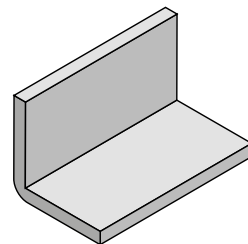
Below are some examples of product found in your local Reseller that may compliment and provide options in finishing off your Easycraft panel project. **Note: Easycraft supply 2 dado rails that suit our dado size panels (rebated) and full wall size panels (flat).**



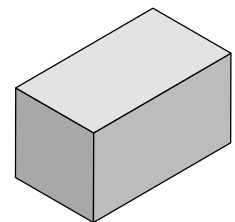
easydado - Rebated



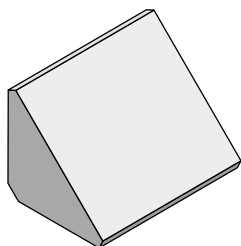
easydado - Flat



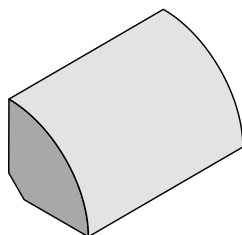
External Corner



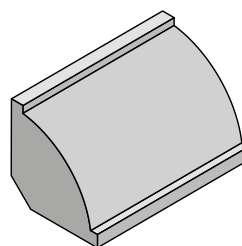
Stops DAR



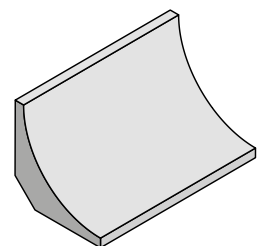
Tri-Quad Corner Moulding



Quad Corner Moulding



Ovolo Corner Moulding



Scotia Corner Moulding

# section 2

## specification guide

Easycraft has a long history of working with Specifiers to understand their projects needs and challenges. Found within the following pages, we provide fit for purpose solutions making Easycraft an easy specification solution for your project.

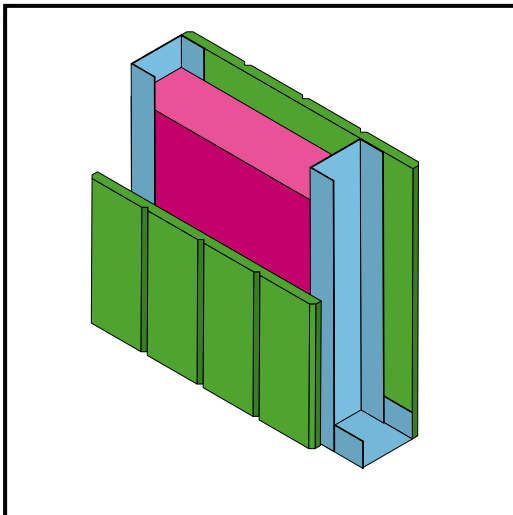
interior wall system	29
features & benefits	30
performance considerations	31
specification easy reference	32
building classification	35
building classification application matrix	36
sound isolation performance	37
sound isolation applications	38
definitions/glossary of terms	43
material reference summary	44

# interior wall system

The Specification Guide has been developed to assist Architects, Specifiers, Interior Designers, and Builders in the selection of wall systems using Easycraft products.

Easycraft products contribute to the performance of the building envelope. Within our Specification Guide we have provided lightweight wall system solutions to cater for a variety of wall applications within education, office, retail, aged care and residential developments.

## Easycraft Wall Panel System example



For further assistance or customised design solutions for your project, please contact your Local Distributor.

**Note:** The design of acoustic walls is a specialised field and requires the services of a professional consultant/engineer. The Specification Guide has been prepared and reviewed in conjunction with Dr. Mike Corrigan (MAAS). In specific applications the use of an appropriate consultant should be considered.



# features & benefits

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## Point of Difference

For years buildings have been designed with the use of plasterboard as an internal lining, providing clean and sterile environments. Architects and Interior Designers now have a flexible choice with Easycraft panelling.

With profiles that cannot be attained by traditional lining manufacturers (plasterboard, cement sheet & lining boards) Easycraft provide design flexibility to be able to create environments that match period styles or designs with a more contemporary feel.

Architects and Interior Designers now have a wall lining material that provides them with linear lines of their choosing. When applied horizontally or vertically it creates a visual illusion of a wider and taller environment. With the array of sizes offered you can create an environment using Easycraft panels as a point of difference with flexibility and choice.



## Bespoke

Easycraft collaborates closely with Architectural firms and Interior Designers to create bespoke finishes. Easycraft enjoys the ability to be part of the Architects or Interior Designers vision and design process to create a finished product of their imagination.

Easycraft has access to a large range of materials available in a range of thicknesses that provide flexibility and performance choices with your design options.

***Your design is only limited by your imagination...***



## Ease of Installation

Easycraft's *easyjoin* system provides a means to join one board to the next easily and seamlessly. The *easyjoin* system allows you to install your selected profile with no sign of interruption. Easycraft panels are easy to install, so much so that we have significant popularity among DIY home improvers.

Within commercial projects, it can be installed by one of the following contractors; Carpenter, Plastering Contractor or Joinery Contractor.



## Efficient & Cost Effective

Installed (providing a primed surface) three times faster than installed and primed plasterboard. Twenty times faster when drying time is included.

Convenient sizes are available, limiting the requirement for cutting on-site, meaning significantly less waste, less mess and less labour costs.

By comparison to alternative feature walls (timber, rendered, textured paint) Easycraft panels are approximately the same cost as supplied and installed plasterboard!

Making it a cost effective way to provide a wall or ceiling feature or providing a quicker installation alternative to plasterboard.

Compared with traditional forms of lining boards, a carpenter is required to install 8 to 9 boards versus 1 sheet of Easycraft (64 nails vs 6-8 nails). Significantly less time required for installation and less time required for a painter to patch and paint thereafter.

# performance considerations

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## Structural Integrity

Areas subject to wear and tear need special consideration to reduce damage and maintenance costs. High traffic areas are commonly found in: shopping centres, educational facilities, hotels, airports, correctional centres, hospitals, garages, home gyms, corridors and rumpus rooms.

There are various measures of the strength of Easycraft Panels vs. traditional plasterboard.

These include Modulus of Rupture or Flexural Strength and Impact testing of a wall construction (Hard body NCC Volume One Specification C1.8) up to 7 times the flexural strength of plasterboard at the same thickness. When measured against these standards Easycraft fabricated walls have up to 300% the impact resistance of ordinary plasterboard and up to 50% greater than high impact plasterboard.

Therefore the Easycraft range of Wall and Ceiling Linings can be used in areas such as gymnasiums, corridors and other high traffic areas (subject to meeting other NCC code requirements) and at the same time also reduce the noise transfer across adjoining partitions.

---



## Sound Isolation

Easycraft commissioned CSIRO to conduct testing to ISO 140-3 Acoustics -- Measurement of sound insulation in buildings and of building elements -- Part 3: Laboratory measurements of airborne sound insulation of building elements and rating the results to ISO 717-1 Acoustics -- Rating of sound insulation in buildings and of building elements -- Part 1: Airborne sound insulation on a variety of lined steel framed wall systems using Easycraft's range of linings as the external face of the walls. These systems reflected the use of combinations of internal linings that can be used in new or retro fit installations.

The sound isolation acoustic performance of these walls also allowed a comparison with other similar lined plasterboard wall systems, an ability to project results from differing wall constructions and to assist in recommendations for various applications.

As Easycraft General Purpose Panels has a similar thickness (9mm vs. 10mm) and weight/m<sup>2</sup> (6.9kg vs. 6.5kg) as 10mm plasterboard, it could be considered as a lining similar to traditional plasterboard in performance.

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## Sound Absorption

Hard surfaces reflect sound and can create noisy rooms or halls which can have a serious impact on speech intelligibility.

AS2107 Acoustics recommended design sound levels and reverberation times for building interiors, defines the recommended reverberation time (the time for decaying sound to decay by 60dB) for a large range of internal building elements.

The Noise Reduction Coefficient (NRC) is the term used to rate a system for its ability to absorb sound. The higher the NRC value, the better the sound absorption of the system. The NRC is the arithmetic average of the product's sound absorption coefficients at 250, 500, 1000 and 2000Hz.

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# performance considerations

---



## Thermal Performance

The NCC Volumes One and Two detail energy provisions for building elements in most classes of buildings.

*The deemed to satisfy requirements* detail the total R value of building elements that comply. These are detailed in NCC Volume One Specification J1.3, for example. Typical internal linings made from plasterboard have a contribution of 0.06 m<sup>2</sup>K/W to the total R value of the building element which is typically less than 3% of the insulated total R value.

The AIRAH technical manual 2013 gives the thermal resistance per unit thickness of ECP base materials at 640kg/m<sup>3</sup> as 0.083m<sup>2</sup>K/W. Therefore a 9mm thick Easycraft panel has an R value of 0.075m<sup>2</sup>K/W. This value is slightly higher than traditional R value for plasterboard 10mm linings of 0.059m<sup>2</sup>K/W and therefore the existing total R values in the deemed to satisfy requirements can be used for building elements with the Easycraft Panels used as alternative internal linings material.

---



## Fire Performance

The fire performance requirements of the NCC are dependent on the classification of the building see BCA Building Classifications - page 37.

Stand-alone residential buildings Class One (Volume 2 NCC) have a low fire specification unless they fall into the requirements of bushfire areas (AS 3959 Construction of buildings in bushfire prone areas).

Other buildings covered by the NCC Volume One classifications 2 to 9 may have two levels of fire performance.

Fire performance requirements of Internal linings are covered by Clause 1.10 of the code and provide location usage based on the group number achieved in the Corner Burn test ISO 9705 Fire tests -- Full-scale room test for surface products.

The applicable usages of Easycraft linings (Easycraft Panel - General Purpose (GP) group 3, Easycraft Panel - Fire Resistance (FR) group 2 to NCC requirements are detailed in the building classification application matrix - page 38.

Structural building components or elements designed to prevent the spread of fire can also be specified in certain areas as detailed in NCC Volume One section C1.1.

Fire systems in these requirements are rated to withstand a fire under test conditions for a certain period of time NCC Volume One Specification C1 and Volume Two Parts 3.7.1. These requirements are known as the Fire Resistance Level (FRL). Further information in NCC Volume One Specification A2.3. Where a FRL is a requirement, the use of Easycraft linings may not be suitable.

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# specification easy reference guide

We have categorised our products to comply/conform with the NCC Specifications C1.10-4 requirements, as such our product nominations consist of:

Easycraft Panels perform to a Group 3 rating and are nominated as;

**GP EASYCRAFT PANEL – GENERAL PURPOSE INTERIOR**

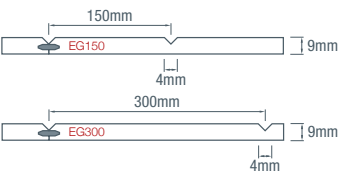
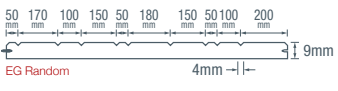
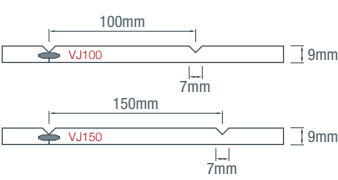
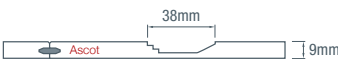

**WA EASYCRAFT PANEL – WET AREA INTERIOR**

**SE EASYCRAFT PANEL – SEMI EXTERIOR**

Fire Resistant Easycraft Panels perform to a Group 2 rating and are nominated as;

**FR EASYCRAFT PANEL – FIRE RATED INTERIOR**


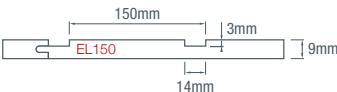

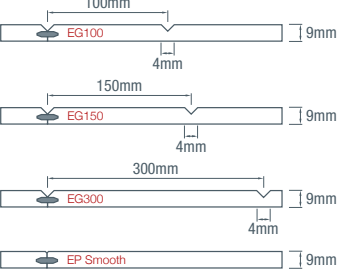
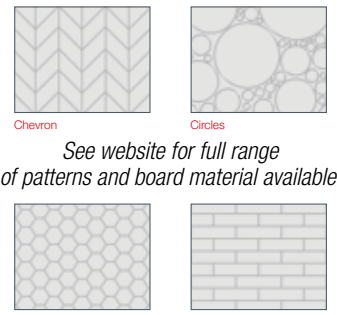
This Specification Guide highlights our range of Product Profiles, recommended **Application Areas (A)**, **Material Thickness (B)** and **Surface Finishing Options (C)**. Refer Page 2 for full Product Legend description.

Product Name	Product Profile	A Application	B Thickness (mm)	C Surface Finish Option	Description (A+B+C)
<b>easygroove</b> 150 or 300  Refer to page 5		GP	9,12	PR RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easygroove</b> with ..... centres (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easygroove</b> random  Refer to page 5		GP	9,12	PR RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easygroove random</b> (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easyvj</b>  Refer to page 7		GP	9,12	PR RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft EasyVJ</b> with ..... centres (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easyascot</b>  Refer to page 9		GP	9,12	PR RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easyascot</b> ..... panels (A)..... at (B).....mm and have a (C)..... finish.
		FR	9		
<b>easyregency</b>  Refer to page 11		GP	9,12	PR RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easyregency 150 centres</b> (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		

**Note:** FR Board subject to availability.



# specification easy reference guide

Product Name	Product Profile	A Application	B Thickness (mm)	C Surface Finish Option	Description (A+B+C)
<b>easypanel</b>  Refer to page 13		GP	9,12	PR  RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easypanel smooth</b> (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easyline</b>  Refer to page 14		GP	9,12	PR  RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easyline</b> with..... centres (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easybeaded</b>  Refer to page 15		GP	9,12	PR  RA	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easybeaded</b> with ..... centres (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		
<b>easyvener</b>  Refer to page 18		GP	10,13	RA  CL  WW	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft easyvener</b> (..... type) with..... centres (A)..... at (B).....mm and have a (C)..... finish.
		FR	12		
		GP	9,10,13		
		WA SE	9.5		
<b>expression series</b>  Refer to page 19		GP	9,10,13	PR  RA  CL	The framing shall be lined on the ..... side with ..... layer(s) of <b>Easycraft expression series</b> (..... type ..... pattern) (A)..... at (B).....mm and have a (C)..... finish.
		WA SE	9.5		
		FR	12		

**Note:** FR Board subject to availability.

# building classification

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Buildings are classified into classes by the National Construction Code (NCC) Volume One & Two. These classes may then deem to have specific energy efficiency, fire performance and acoustic requirements to provide suitable amenity for building users and owners. These classes are defined as follows:

## BCA Building Classifications

---

### **Class 1: one or more buildings, which in association constitute:**

- (a) Class 1a - a single dwelling being
    - (i) A detached house; or
    - (ii) One of a group of two or more attached dwellings, each being a building, separated by a fire-resisting wall, including a row house, terrace house, town house or villa unit; or
  - (b) Class 1b - a boarding house, guest house, hostel or the like
- 

### **Class 2: a building containing 2 or more sole-occupancy units each being a separate dwelling.**

---

### **Class 3: a residential building, other than a building of Class 1 or 2, which is a common place of long term or transient living for a number of unrelated persons, including:**

- (a) A boarding house, guest house, hostel, lodging house or backpackers accommodation; or
  - (b) A residential part of a hotel or motel; or
  - (c) A residential part of a school; or
  - (d) Accommodation for the aged, children or people with disabilities; or
  - (e) A residential part of a healthcare building, which accommodates members of staff
- 

### **Class 4: a dwelling in a building that is Class 5, 6, 7, 8 or 9 if it is the only dwelling in the building.**

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### **Class 5: an office building used for professional or commercial purposes, excluding buildings of Class 6, 7, 8 or 9.**

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### **Class 6: a shop or other building for the sale of goods by retail or the supply of services direct to the public**

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### **Class 7: a building, which is:**

- (a) Class 7a - a car park; or
  - (b) Class 7b - for storage, or display of goods or produce for sale by wholesale.
- 

### **Class 8: a laboratory, or a building in which a handicraft or process for the production, assembling, altering, repairing, packing, finishing, or cleaning of goods or produce is carried on for trade, sale, or gain.**

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### **Class 9: a building of a public nature:**

- (a) Class 9a - a health-care building; including those parts of the building set aside as a laboratory; or
  - (b) Class 9b - an assembly building, including a trade workshop, laboratory or the like in a primary or secondary school, but excluding any other parts of the building that are of another Class; or
- 

### **Class 9c: an aged care building.**

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### **Class 10: a non-habitable building or structure.**


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# building classification application matrix

## Easycraft Internal Wall and Ceiling Lining Application Matrix

The table below highlights the Areas of Use for Easycraft Panel - General Purpose Interior (GP) and Easycraft Panel Interior - Fire Resistant (FR) when referenced against the NCC wall and ceiling lining material group requirements (NCC Volume One, Spec C1.10-4 Table 3).

**EASYCRAFT PANEL - GENERAL PURPOSE GROUP 3**  **EASYCRAFT PANEL - FIRE RESISTANT GROUP 2** 

Class of Building	Public Corridors		Specific Areas		Other Areas Building Wall/Ceiling		
	Wall	Ceiling	Wall	Ceiling	Wall/Ceiling		
<b>Class 1</b>	N/A	N/A			N/A		
<b>Class 2 or 3 Excluding accommodation for the aged, people with disabilities and children</b>							
Unsprinklered							 
Sprinklered							 
<b>Class 3 or 9a Accommodation for the aged, people with disabilities, children and healthcare buildings</b>							
Unsprinklered							 
Sprinklered							 
<b>Class 5 6 7 8 or 9b schools</b>							
Unsprinklered							 
Sprinklered							 
<b>Class 9b other than schools</b>							
Unsprinklered							 
Sprinklered							 
<b>Class 9c</b>							
Sprinklered							 

For the purpose of this Table:

- "Sprinklered" means a building fitted with a sprinkler system complying with Specification E.5.
- "Specific areas" means within:
  - For Class 1 buildings detached housing (Note specific requirements of AS 3959 may apply in bushfire areas).
  - For Class 2 and 3 buildings a sole-occupancy unit.
  - For Class 5 buildings open plan offices with a minimum floor dimension/floor to ceiling height ratio >5.
  - For Class 6 buildings shops or other building with a minimum floor dimension/floor to ceiling height ratio >5.
  - For Class 9a health-care buildings patient care areas.
  - For Class 9b theatres and halls etc. an auditorium.
  - For Class 9b schools a classroom.
  - For Class 9c aged care buildings resident use areas.
- Where water resistant walls are required as per NCC Volume One F1.7 and Volume Two Part 3.8.1 Easycraft easyclad should be used for the wall lining. Specific details are available on application. Water resistant is defined in AS 3740 Waterproofing and wet areas and Clause 3.8.1 of NCC Volume Two.

# sound isolation performance

## Sound Isolation of Walls

The airborne acoustic performance (or sound isolation) of wall systems is generally defined by its weighted sound reduction index  $R_w$  and the spectrum adaption terms C, Ctr. These terms have been adopted to take into consideration specific noise sources. For example the relevant terms C applies to living activities and children playing whereas the Ctr term applies to noise sources such as urban traffic noise, disco music and other low frequency sources. In many cases the use of acoustic products is mandated by the Building Code of Australia for building elements such as walls to comply with specified performance requirements. Commercial framed walls lined with plasterboard have their acoustic performance defined by a range of factors such as;

- The weight/m<sup>2</sup>(kg) and /or thicknesses(mm) of the linings
- The framing material (steel or timber)
- The wall or stud thickness (e.g. 64mm or 92mm)
- Framing centres (600mm or other)
- The nature of the acoustic infill if any within the wall cavity (material type, density and thickness)

The impact of changing these variables can be readily seen from the extensive material published by plasterboard lining suppliers. The published  $R_w$  of some common plasterboard walls with insulation in the cavity are detailed below:

**Table One:**

**$R_w$  for Steel Wall Framed Single Stud at 600mm Centres with Insulation in the Cavity**

Plasterboard thickness mm either side	Total Number of lining layers	Example	Wall Cavity 64mm Thickness	Wall Cavity 92mm Thickness
10/10	2		$R_w$ 39	$R_w$ 40
10/2X10	3		$R_w$ 43	$R_w$ 45
2X10/2x10	4		$R_w$ 48	$R_w$ 50

# sound isolation applications

## Sound Isolation Applications

Easycraft commissioned CSIRO to conduct testing to ISO 140-3 Acoustics - Measurement of sound insulation in buildings and of building elements - Part 3: Laboratory measurements of airborne sound insulation of building elements and rating the results to ISO 717-1 Acoustics - Rating of sound insulation in buildings and of building elements - Part 1: Airborne sound insulation on a variety of lined steel framed wall systems using Easycraft's range of linings as the external face of the walls. These systems are examples of interior lining options for new or retrofit installations.

The acoustic performance of these walls also allowed a comparison with other similar lined plasterboard wall systems, an ability to project results from differing wall constructions and to assist in recommendations for various applications.

As Easycraft Panel - General Purpose has a similar thickness (9mm vs. 10mm) and weight/m<sup>2</sup> (6.9kg vs. 6.5kg) as 10mm plasterboard, it could be considered as a lining similar to traditional plasterboard in performance. Thus the above results can be compared to the data in Table One in similar combinations of layers of similar thicknesses and weights.

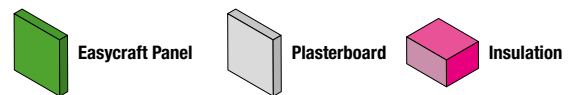
The results in Table Two show that the Easycraft range of wall linings performs as well or slightly better than plasterboard wall constructions with similar wall thicknesses and weight.

(Full product specification details can be found within the Product Data Sheet)

These results are summarised below:

**Table Two:**

**Rw for Steel Wall Framed Internal Single Stud at 600mm Centres**



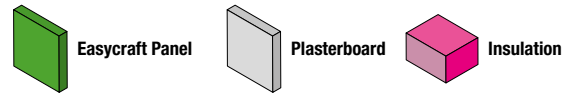
Wall Configuration	Stud Size (mm)	Footprint width (mm)	Acoustic Rating	Example
1x Easycraft General Purpose 9mm (ECP-GP) 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 9mm (ECP-GP)	64	82	Rw 41	
1x Easycraft General Purpose 12mm (ECP-GP) 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x 10mm Plasterboard	64	86	Rw 43	
1x Easycraft General Purpose 9mm (ECP-GP) 1x 10mm Plasterboard 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x 10mm Plasterboard	64	93	Rw 45	
1x Easycraft General Purpose 9mm (ECP-GP) 1x 10mm Plasterboard 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x 10mm Plasterboard 1x Easycraft General Purpose 9mm (ECP-GP)	64	102	Rw 50	
1x Easycraft General Purpose 9mm (ECP-GP) 1x 10mm Plasterboard 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x 10mm Plasterboard	92	121	Rw 50	

**Note:** The same performance can be achieved using ECFR and applied where Group 2 ratings are required.

# sound isolation applications

## Offices

Typical office areas require various levels of sound isolation.



Rooms	Components	Stud Size (mm)	Footprint width (mm)	Acoustic Rating	Example
Reception areas	1x Easycraft General Purpose 9mm (ECP-GP) 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 9mm (ECP-GP)	64 (steel studs) or 90 (timber studs)	82 (steel) 108 (timber)	Rw 40	
Managers office	1x Easycraft General Purpose 9mm (ECP-GP) 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 9mm (ECP-GP)	92 (steel studs) or 90 (timber studs)	110 (steel) 108 (timber)	Rw 45	
Board rooms	1x Easycraft General Purpose 9mm or 12mm (ECP-GP) 1x 13mm Plasterboard 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x 13mm Plasterboard	92 (steel)	127	Rw 50	

**Note:** Should increasing the performance of existing walls (retrofit environments) be required Easycraft products can be installed over the top of an existing environment directly with an increase of Rw 1-3. However more substantial increases can be achieved by up to Rw 7 using impact clips, furring channel and insulation to separate the wall lining from the existing surface.

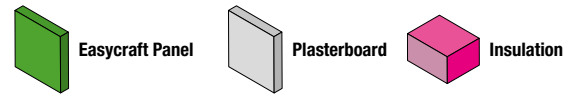


# sound isolation applications

## Schools

The Victorian Government Building Quality Standards Handbook 2011 (Section 4.11.3) prescribed a range of suitable wall systems for various rooms within a school environment.

As an example these can be met using the Easycraft range of wall linings as detailed below which have similar Rw to those walls specified in the Handbook as meeting the overall acoustic ratings.



Rooms	BQSH Category	Components	Stud Size (mm)	Footprint width (mm)	Example
Store room	1	1x Easycraft General Purpose 9mm (ECP-GP) 1x (No Insulation) 1x Easycraft General Purpose 9mm (ECP-GP)	64 steel studs or 90 timber studs	82 (steel) 108 (timber)	
Reception areas, offices and corridors	2	1x Easycraft General Purpose 9mm (ECP-GP) 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 9mm (ECP-GP)	64 steel studs or 90 timber studs	82 (steel) 108 (timber)	
General purpose class room, art and craft studio's seminar rooms quiet rooms/pods	3	1x Easycraft General Purpose 9mm (ECP-GP) 1x 13mm Plasterboard 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 1x 13mm Plasterboard	64 steel studs or 90 timber studs	82 (steel) 108 (timber)	
Open learning areas/libraries/ staff rooms and conference rooms	4	1x Easycraft General Purpose 12mm (ECP-GP) 1x 13mm Plasterboard 1x Fletcher Insulation 75mm Pink Partition 11kg/m <sup>3</sup> 2 x 13mm Plasterboard 1x 10mm Plasterboard	64 (steel)	112	
Open learning areas/libraries/ staff rooms and conference rooms	4	1x Easycraft General Purpose 12mm (ECP-GP) 1x 10mm Plasterboard 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x 10mm Plasterboard	92 (Steel)	121	
Gymnasiums/ machine rooms auditorium technology classrooms, music and drama	5	1x Easycraft General Purpose 12mm (ECP-GP) 1x Fletcher Insulation 165mm Pink Partition 11kg/m <sup>3</sup> 1x 50mm Pink Partition 11kg/m <sup>3</sup> 2 x Easycraft General Purpose 9mm (ECP-GP)	2 x 64 (steel) with 50 cavity space	208	
Gymnasiums/ machine rooms auditorium technology classrooms, music and drama	5	1x Easycraft General Purpose 12mm (ECP-GP) 1x Fletcher Insulation 165mm Pink Partition 11kg/m <sup>3</sup> 1x 50mm Pink Partition 11kg/m <sup>3</sup> 2 x Easycraft General Purpose 9mm (ECP-GP)	2 x 90 (timber) with 50 cavity space	260	

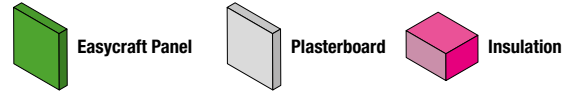
**Note:** The BQSH specifies detailed construction requirements for these walls in terms of the through the ceiling path and the like. The specifier is referred to this document for more detail.

The British Design Guide 93 for schools also has comprehensive guide to sound isolation between various spaces.

# sound isolation applications

## Aged Care Buildings (Class 9c)

Where a wall of Rw 45 is required (NCC Volume One F5.5) to separate sole occupancy units these can be met by the following wall systems;



Rooms	Components	Stud Size (mm)	Footprint width (mm)	Example
Aged care – sole occupancy units	1x Easycraft General Purpose 9mm (ECP-GP) 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 9mm (ECP-GP)	92 (steel studs)	110 (steel)	
Aged care – sole occupancy units (discontinuous construction)	1x Easycraft General Purpose 12mm (ECP-GP) 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 12mm (ECP-GP)	2 x 64 (steel) with 150 cavity space	254	
Aged Care – sole occupancy units (discontinuous construction)	1x Easycraft General Purpose 12mm (ECP-GP) 1x Fletcher Insulation 110mm Pink Partition 11kg/m <sup>3</sup> 1x Easycraft General Purpose 12mm (ECP-GP)	2 x 90 (timber) with 50 cavity space	254	

**Note:** Where FRL is required Easycraft should be consulted to confirm the suitability of the lining materials in the proposed application.

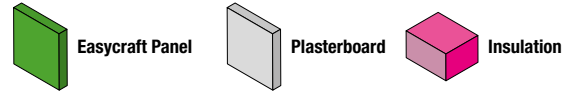
# sound isolation applications

## Residential Construction

For residential buildings in areas such as work study areas and bedrooms, should have an internal design sound level of 25-35dB (A) according to AS2107 Acoustics - Recommended design sound levels and reverberation times for building interiors.

Easycraft linings used in ceiling applications with a tiled roof inclusive of sarking and insulation on the ceiling lining will achieve an Rw 42-43.

Detailed below are examples of wall constructions that will facilitate meeting these designed sound levels;



Rooms	Components	Stud Size (mm)	Footprint width (mm)	Acoustic Rating	Example
Bedrooms to bedrooms	1 x Easycraft General Purpose 9mm (ECP-GP) 1 x Fletcher Insulation Pink Batts R1.5 1 x Easycraft General Purpose 9mm (ECP-GP) or 10mm Plasterboard	90 (timber studs)	108	Rw 40	
External walls	1 x Easycraft General Purpose 9mm (ECP-GP) 1 x Fletcher Insulation Pink Batts R1.5 1 x Cavity + Brickwork	90 (timber studs)	240	Rw 54-59	

**Note:** Should increasing the performance of existing walls (retrofit environments) be required Easycraft products can be installed over the top of an existing environment directly with an increase of Rw 1-3. However more substantial increases can be achieved by up to Rw 7 using impact clips, furring channel and insulation to separate the wall lining from the existing surface.

Where FRL is required Easycraft should be consulted to confirm the suitability of the lining materials in the proposed application.

# definitions/glossary of terms

## Base Substrates:

### Easycraft General purpose products include:

- *EP-CF* Compressed Fibreboard (interior use)
- *EP-HW* Compressed Fibreboard (Hardwood) Interior wet area and semi-exterior (undercover) use
- *EP-VEN* Compress Fibreboard with Veneers applied (interior use)
- *EP-FR* Interior use for Fire Rated areas
- *EP-PLY* Hoop Pine Ply Interior use

## Building Fabric:

The materials and systems used for the construction of a building which includes, but is not limited to, insulation, cladding and roofing materials.

## Water Resistant:

The property of a system or material that restricts moisture and will not degrade under conditions of moisture.

## Insulation Terms:

### Thermal Conductivity $k$ W/mK

A measure of the ability of a material to conduct heat.

### Thermal Resistance $R$ m<sup>2</sup>K/W

A measure of the ability of a material to resist heat transfer. Detailed in AS4859.1 Materials for the thermal insulation of buildings.

## Fire Performance Terms:

### FRL

The grading in minutes determined in accordance with NCC Volume One Specification A2.3 and AS1530 Part 4 Methods for fire tests on building materials, components and structures - fire-resistance test of elements of construction.

### Fire hazard Properties

This is the property of a material or assembly that's group number is determined in accordance with NCC Volume One Specification C1.10.

## Common Sound Insulation Terms

### Rw

- Rw is the weighted sound reduction index in dB and it describes the airborne sound insulating power of a building element. It is a laboratory-measured value as defined in ISO717 Part 1. It can apply to walls, ceiling/floors, ceiling/roofs, doors, or windows. The higher the number, the greater the sound insulating power of the building element. It is measured over the frequency range 100 to 3150Hz and replaces the old measure STC.
- An increase in the Rw of a wall by 6 to 10 points will reduce the perceived loudness of sound passing through the wall by about half.
- The airborne acoustic performance of wall systems is generally defined not only by its weighted sound reduction index Rw but also by the spectrum adaption terms C, Ctr. These terms have been adopted to

take into consideration specific noise sources.

For example the relevant term C applies to living activities and children playing whereas the Ctr term applies to noise sources such as urban traffic noise, disco music and other low frequency sources.

- **Rw+Ctr:** The Rw+Ctr is Rw with the addition of a low frequency sound correction factor Ctr. (a negative number). The use of Rw + Ctr has become more relevant due to the increase in low frequency sound sources such as surround sound systems, traffic and aircraft noise, drums and bass guitars. Two walls can have the same Rw rating, but have different resistance to low frequency sound, thus a different Rw + Ctr.
- The Rw+Ctr term is referred in the NCC/BCA in Volume One Section F5 for walls separating sole occupancy units in particular.

### DnTw

- DnTw is the equivalent of Rw, but measured on-site. Rw is the value measured in an acoustic laboratory, while DnTw is measured on-site.
- An on-site measured value of DnTw + Ctr is permitted to be 5 points lower than the Rw + Ctr value. Where the BCA may call for an Rw + Ctr > 50, the same requirement may be satisfied by measuring DnTw + Ctr > 45 on-site.

### Ln+Ci

- Ln,w+Ci describes how easily impact sound travels through a wall or floor. Impact sound is generated by sources such as dryers, washing machines and heeled shoes on a wooden floor.
- Unlike Rw values, better performing walls or floors have lower values. Therefore when specified, Ln,w+Ci values are maximums while Rw values are minimums. For example, the BCA requires some floors to have Ln,w+Ci < 62.

### Impact Sound Isolation and walls

- Walls that have an Impact Sound Insulation requirement are defined in the BCA as walls that do not have any rigid mechanical connection between two separate leaves except at the perimeter.
- Discontinuous Construction is defined in the BCA as walls that have a gap of at least 20mm between two separate leaves. Double stud plasterboard walls connected only at the perimeter are classed as 'discontinuous'.

### NRC

- A materials ability to absorb sound is measured by its sound absorption coefficient and is often expressed in terms of a Noise Reduction Coefficient (NRC). The NRC is the arithmetic average of the product's sound absorption coefficients at 250,500,1000 and 2000Hz. The sound absorption coefficients of products are measured according to ISO140-3. An NRC of 0.4 means 40% of sound is absorbed by the material. Typical building materials such as plasterboard have an NRC of approximately 0.04 which means only 4% sound will be absorbed.

# material reference summary

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The following documents can be downloaded at:  
<http://www.easycraft.com.au/resources>

GENERAL PRODUCT INFORMATION

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GENERAL INSTALLATION INFORMATION

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PRODUCT DATA SHEETS (PDS)

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MATERIAL SAFETY DATA SHEETS (MSDS)

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FIRE TEST RESULTS - GROUP RATING

---

CHAIN OF CUSTODY CERTIFICATION

---

SAFE WORK METHOD STATEMENT

---

HEALTH & SAFETY FOR USERS

---

MATERIAL HANDLING & STORAGE

---

BIM (Revit), CAD & ARCHICLAD - 3D panel drawings provided

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