www.gyprock.com.au

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GYPROCK™

cemintel™
fibre cement systems

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renovation guide

Where to now?

CSR

The theme is me, me, me … feel free to mix colours and textures in your own unique way. Accessorise, accessorise … surround yourself with objects, colours and textures that you love, whilst still keeping it simple.

Textures, florals and prints feature in soft furnishings and wallpapers. Transform favourites from the past … add new life to grandma's chair with stronger colours; greens, oranges, pinks.

Wenge (pronounced "wengay") is still here, with timber shades remaining predominantly darker.

Lisa King, Principal Interior Designer, Orno.

lost?

confused?

don't know where to turn?

Building or renovating a home can seem like a daunting task. There are hundreds of decisions to be made from whether to do it yourself to which light fittings will look the best.

This guide is designed to help you plan your renovations and give you the tools to make informed decisions on how to make your home look and feel the way you want it to. Renovating is a great way to improve your home's visual appeal and often its value. By choosing high performance wall and ceiling products from CSR Gyprock® you can be satisfied that you are using the best products available, with properties to reduce noise, resist impact, repel water and minimise the damage in the event of a fire.

Sound planning is an important part of any renovation to ensure that the vision for your home can become reality – take some time to look through this guide and you will see how we can help you make the journey as easy as possible.

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TIP
The mood of a room can be enhanced by using feature walls. They can also portray the feeling of extra space in a room if colours are chosen carefully.

Road To Success

Once you have made the decision to build or renovate, it is important to have an understanding of the building process. Basically, there are three areas you need to consider; your budget, your level of involvement and lifestyle requirements.

TIP
Focus on the critical features of your design. Remember, as you and your family grow, your home can evolve with things like extra rooms, landscaping, fencing, swimming pools etc that can be added later.

Allow a budget contingency of at least 5-10% for those unexpected items that will inevitably show up as your project progresses.

1 Designated Driver

Regardless of the size of the project, you need to make a decision as to whether you have the skill, time and energy needed to manage the roles that are often undertaken by a professional builder.

You may wish to consider hiring a contractor to do some of the work and find out what tasks they suggest you to undertake. By taking this approach you can achieve a professional outcome and potentially save money on the project.

Find a contractor at **www.gyprock.com.au/locations/contractor.asp**

2 Legal Turn

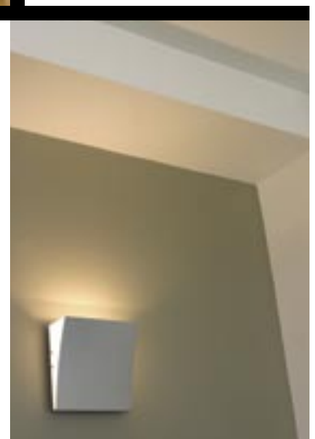
Make sure you know the legal liabilities associated with being an owner-builder. You may find yourself responsible for obtaining planning approval, building approval, workers compensation, public liability and other aspects that professional builders encounter every day.

Certain electrical and plumbing tasks must legally be done by a professional with the relevant occupational licence or certification.

3 Crash Barrier

The possibility of depreciating your property due to poor workmanship is not half as frightening as the potential risks that you take with your health, or worse, someone else's!

Old houses may have asbestos and lead paints. Timber in some older homes was often treated with arsenic or used lead. Licensed builders understand the health and safety issues and are responsible for taking on the risk.



4 Breaking Restrictions

There are many challenges facing owner-builders but none more so than actually getting a loan. Lending organisations may be wary when lending money for building projects that involve a level of risk. Shop around but be aware, many lenders impose strict timelines that must be adhered to.

5 Be Aware

State and local governments have a number of regulations and bylaws pertaining to planning and building in residential areas – make sure you are aware of those that are relevant to the type of project you are planning to undertake.

For state specific information relating to owner-builder requirements visit the following links:

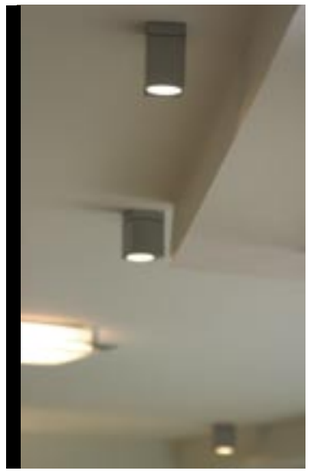
QLD	**www.bsa.gov.au**
ACT	**www.actpla.act.gov.au**
NSW	**www.fairtrading.nsw.gov.au**
SA	**www.planning.sa.gov.au**
VIC	**www.dse.vic.gov.au**
TAS	**www.wst.tas.gov.au**
WA	**www.brb.org.au**

For a list of designers visit:
www.gyprock.com.au

6 Driving Restrictions

They say, 'Every man's home is his castle', you just need to know how big your castle can be. Find out how much you can borrow (usually against the equity you have already acquired in your own home). You will need to know what you can afford in order to set realistic budgets for your project to follow.

There are many different lending organisations and it can be worth while getting a broker to find one that may be able to make a better offer than your existing bank.



7 Scenic Drive

The most exciting part of renovating is collecting all of the imagery that represents how you would like to transform your home.

It is much easier to explain your ideas to an architect or designer using pictures rather than words. Compiling all of your ideas into a scrapbook will act as a valuable guide – and it's fun!

In order to ensure that you enhance the quality of your living environment, you need to research which products are available and include them in your plans. More information on internal and external product solutions is included in this guide:

One word of caution, whilst it is very easy to get caught up in the latest design trends you will need to consider –

- Local Council restrictions: visit your local council website or contact the relevant department

- If you're renovating to sell or you simply want to make sure your investment is not going to date too quickly, you need to research what trends are driving consumers – being too 'out there' can limit your mass market appeal. Check out **www.archicentre.com.au** for a report written on 'Renovation Trends in Australia.

8 Street Wise

Armed with your scrapbook you now face the task of finding an architect or designer to turn a million ideas into your vision. Word of mouth can be a good place to start - talk to people in your neighbourhood that have recently built or renovated their homes.

Relevant magazines and web sites such as the Designers Institute of Australia **www.dia.org.au** will also give you contact details and of course there is always the yellow pages.

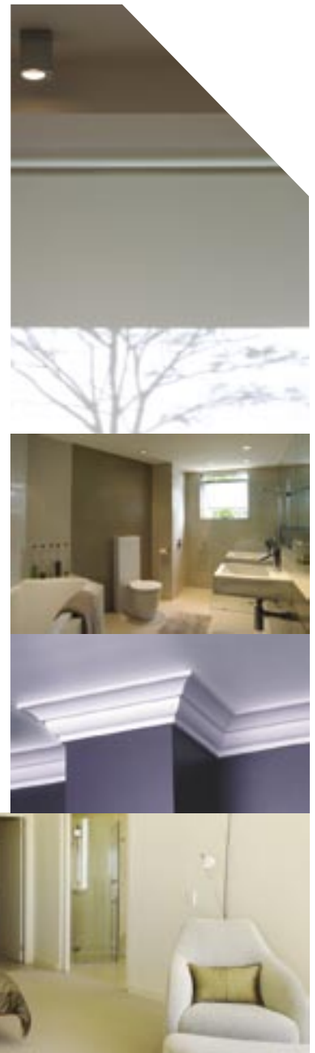
Make sure your designer gives you a written quote. The architect or designer will also need to know your budget so the design is financially feasible.

9 All paths lead to ...

... the builder! Whether you are the owner-builder or employ a professional, the buck stops there. Finding a builder usually involves the same process as finding the architect. Make sure your builder is registered. Refer back to 'Be Aware' for web links.

TIP
Metal interior structural columns can be made into a feature using CSR Gyprock® Plasterboard and innovative finishes.

Total Design Options



Innovative Interiors

With changes to interior design and consumer demand for products that suit their lifestyle, CSR Gyprock® has developed a range of high performance walls and ceilings to help you realise the latest design trends and meet your living requirements.

Gary May – General Manager Marketing

Trends come and go, but there are basic design concepts that remain the same. Open plan living areas can be enhanced by making subtle divisions between rooms. Dropped ceilings and partial walls create the perfect frame for the entrance from one living space to another, whilst maintaining an open plan feel.

Of course, there are some rooms you do not want to have open plan and in fact, the latest trend to include 'media rooms' where family members can turn up the volume, may require some soundproofing!

Prevent your ceilings from sagging with Gyprock Supaceil™. Humidity experienced in many parts of Australia can cause ordinary plasterboard ceilings to sag between joists, especially as wide joist spacings are now common. The incorrect use of heavy downlights and transformers can have the same effect.

Use your wall space creatively by including inset wall features to display the things you love; flowers, antique vase or sculpture.

Decorative cornices help create a different dimension between height and space and there are styles to suit the most contemporary to traditional interiors.

Install surface materials that will ensure the longevity of your investment. Wet areas in the kitchen, bathrooms and laundry can be finished in the latest tiles or paints, and keep their new look much longer.

Cemintel™ at a Glance

CSR Cemintel™ Fibre Cement Product	Common Product Applications	Surface Finish Options
Wallboard	• Lining of wet areas such as bathrooms, kitchens and laundries • Bracing • Impact resistant walls	• Paint • Wallpaper • Tiles
Cladding and Eaves Lining Sheet	• External cladding • Eaves and soffit lining • Internal lining of sheds and garages • Gable ends	• External grade paint
Texture Base Sheet	• External base sheet for applied texture finishes • Upper storey additions • Extensions • Recladding existing homes	• Proprietary texture coatings
Cladding Plank	• External cladding • Gable ends	• External grade paint
Compressed Sheet	• External facades/ fascias • External decking • Wet area flooring	• External grade paint • Proprietary texture coatings • Tiles
Architectural Columns and Capitals	• Attractive, functional feature for internal and external use	• Decorative paint finishes • Proprietary texture coatings
Stucco Panel	• External cladding • Gable ends • Feature walls	• External grade paint
Woodgrain Panel	• Internal feature walls • Games / rumpus rooms • Garage Lining	• Decorative paint finishes
Ceramic Tile Underlay	• Forms a flat base for laying ceramic tiles	• Ceramic tiles
Lattice	• Gazebos • Pergolas • Feature panels	• External grade paint
Rendaline™	• Cladding of new homes • Additions and alterations • Lightweight commercial re-cladding	• Proprietary texture coatings
ExpressWall™	• External facades in commercial and residential	• External grade paint • Polyurethane coating

There is an application for every design. For more information visit **www.csrfibrecement.com.au**

Whether you are transforming your 1960's fibro home into a contemporary landmark, or updating your heritage home, there are external cladding products that are easy to install, extremely durable and come in a wide range of finishes.

If you are unsure of which product would best suit your home, your CSR supplier will be happy to give you some helpful advice.

TIP
There are many techniques other than just colour and lighting to help create feature walls. Use bulkheads, false beams, voids or shapes in ceilings and recesses to create separate spaces and functional areas.

Ensure Quiet Areas

- Bedrooms
- Home theatres
- Lounge / dining
- Study / home office

Planning a renovation is more than just deciding the function or theme of a room. When you create a new space or transform an existing area, consideration must be given to activities taking place in the room and in those rooms adjacent.

The use of Gyprock Soundchek™ in bedrooms or studies helps keep noise out. Used in media rooms or bathroom walls, disturbing sounds can be drastically reduced. This type of planning creates quiet areas in your home aimed to maximise space and minimise disruption from internal noise.

Imagine hearing a set of drums while you try to read your Sunday paper, being rudely awoken by the sound of the toilet flushing or the sound of footsteps above your head!

Gyprock Soundchek™ plasterboard is Australia's first dedicated acoustic plasterboard, designed to reduce the noise between rooms by up to 70%.

Gyprock Soundchek™ systems incorporating Bradford SoundScreen™ stop about 70% of heat transfer. Rooms can be up to 7°C cooler in summer and 10°C warmer in winter reducing air conditioning and heating costs. So with peace of mind, comes comfort as well.

TIP
Creaking floors can be the result of poor installation, timber movement, shrinkage and loose fasteners. Where creaking is a problem, it is advisable to lift the existing floor coverings and refix the floor with screws.

	Standard Construction 1 layer of Plasterboard		Level 1 quiet 1 layer of Soundchek™		Level 2 quieter 1 layer of Soundchek™, Bradford Insulation & resilient mount clips	
Quiet conversation	→	40%	→	10%	→	0%
Loud conversation	→	80%	→	25%	→	10%
Laughter	→	90%	→	35%	→	20%
Music & TV at moderate levels	→	90%	→	35%	→	20%
Music & TV at high levels	→	95%	→	45%	→	30%

The wall system construction has two levels of quiet.

Level One walls include a layer of Gyprock Soundchek™ plasterboard, each side teamed with Bradford SoundScreen™ Insulation. This system provides around 50% reduction in noise carried between rooms. Ceilings require 2 layers to joists or trusses.

Level Two has Gyprock® Resilient Mounts included, which helps cut noise transmission by up to 70%.

Consider Tough Areas

- Hallway
- Stairwell
- Rumpus Room
- Garage

TIP
Door stops, a simple item often overlooked, can prevent door handles denting or breaking though walls. Narrow doorways, a removalist's nightmare – wider doorways can reduce the risk of damage when moving furniture.

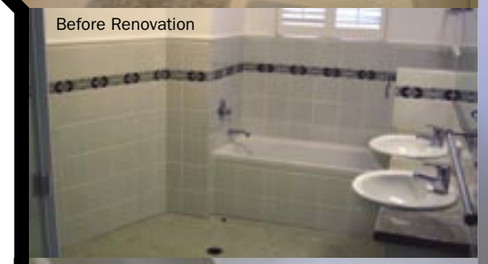
Kids, moving furniture or an over zealous vacuum cleaner can all take their toll on walls. Ensure those areas are lined with Gyprock Impactchek™ plasterboard which has been reinforced with a fibreglass mesh, making it four times stronger than regular plasterboard.

There are areas in your home that can be potentially exposed to significant levels of object impact due to high use. Create tougher walls in high impact zones using Gyprock Impactchek™. This product is especially suited for high traffic areas such as hallways, stairwells, rumpus rooms and children's bedrooms. However, Gyprock Impactchek™ can be used wherever added protection is required.

Because it integrates with standard 10mm plasterboard, Gyprock Impactchek™ can be installed to chair rail height providing more robust walls where it's needed. Once installed and painted, the result is a seamless finish for your walls.

In fact, Gyprock Impactchek™ 13mm is so tough it exceeds the requirements of the Building Code of Australia (BCA) for soft body impact resistance in public assembly buildings.

So for a tougher exterior on a good looking interior, Gyprock Impactchek™ is the answer.



Contain Wet Areas

Bathrooms

Ensuite

Laundry

After spending so much time, effort and money renovating your home, do you really want something as simple as the moisture from a shower or the condensation from a kettle to ruin the look of your walls?

When planning a project involving your kitchen, bathroom or laundry, you can minimise long term moisture damage by selecting Gyprock Aquachek™.

Mould and mildew might look unsightly but it is also a health hazard. Protect wet areas such as the laundry and bathrooms with Gyprock Aquachek™ plasterboard for walls and ceilings.

Long term exposure to steam, moisture build-up or water spills can drastically affect the appearance of your bathroom and laundry, resulting in sagging walls and ceilings covered in mould and mildew, flaking paint, dry rot in framing or detached tiling.

You can protect against unnecessary damage if you specify Gyprock Aquachek™ plasterboard for your bathroom and laundry.

Gyprock Aquachek™ resists the moisture that causes these problems. It has a gypsum core with highly effective moisture resistant additives, and face and back linerboards treated to make them resistant to moisture and humidity. With Gyprock Aquachek™ the walls and ceilings of your bathroom and laundry will look new and resist moisture for many years to come.

TIP
Research indicates that 63% of Australian homes have two bathrooms and that 67% of Australians prefer four bedrooms

Know Fire Risk Areas

Kitchen

Workshop

Bedroom

Garage

TIP
Be careful not to install smoke alarms in areas where they could create false alarms from things such as burning toast. A ‘hush’ facility for when you are ‘cooking up a storm’ can remove the inconvenience of having to remove the batteries.

Before Renovation

After Renovation

In the event of a fire in your home, a key factor to ensuring the safety of yourself and others is time. Fires can start undetected and spread rapidly between rooms – often with occupants unaware of their occurrence.

Gyprock® offers FlamecheckMR™ with specific fire resistant qualities perfect for any areas in your home where fire may occur.

Many house fires start in the kitchen but they can also start in areas prone to moisture like garages and the roof cavity. There are also rooms where you might not be aware of a fire until it is too late such as the rumpus and bedrooms.

Gyprock FlamechekMR™ will help slow the spread of fire and reduce moisture damage. When tested, it resists fire up to 50% longer than regular plasterboard and resists water damage around sinks, dishwashers and plumbing.

CSR Fire Upgrade Systems are a combination of Bradford Insulations FireSeal and Gyprock FlamechekMR™. FireSeal is made from molten rock so it will not burn, while the high performance gypsum core of FlamechekMR™ plasterboard contains highly effective fire retardants and moisture resistant additives.

Bradford Insulation FireSeal is moisture resistant and can be installed in internal walls, eaves and roofing creating ‘safe zones’.

Open Plan Living

Trends in design influence more than the visual appearance of your home. The way rooms are constructed is also effected.

Australian climate conditions can contibute to a ceiling sagging, that is why CSR has developed Gyprock Supaceil™ ceiling plasterboard specifically to help counter these conditions.

Gyprock Supaceil™ will stay flatter. It contains more plaster, unique stiffeners and is fibreglass reinforced for greater strength and sag resistance.

Gyprock Supaceil™ was the first dedicated ceiling board, and is still the best.

During Renovation

After Renovation

TIP
Partial walls are a great way to define areas of your home, while maintaining an open plan feel.

Decorative Cornices

Finishing touches can really make a room feel different. By specifying CSR Gyprock® Decorative Cornices when planning your renovation you can achieve that difference. Gyprock® Decorative Cornices can transform a standard use area into something special.

Gyprock Symphony™ Cornice creates the strong shadow-line effect of the Tempo with an attractive wave.

The elegance of the Gyprock Classic Cornice provides a subtle, contrasting line and shadow where the wall and ceiling meet, accentuating the feeling of space.

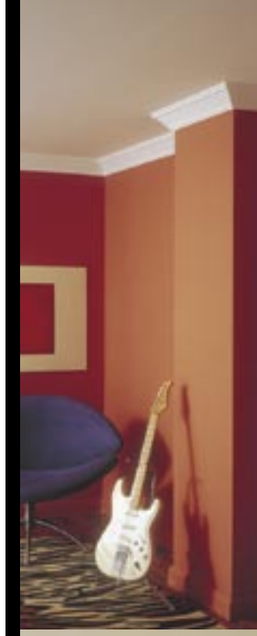
Gyprock Concerto™ Cornice combines smooth curves and sharp lines with a subtle ‘step’ which creates a dramatic shadow where the wall meets the ceiling.

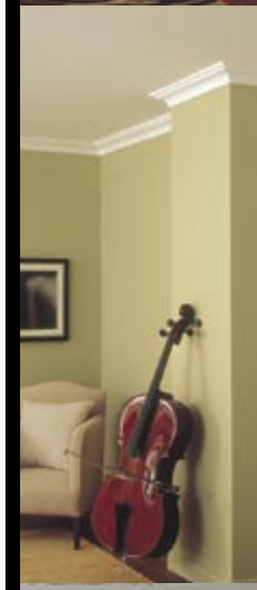
TIP
Did you know, cornices first appeared in the late 19th century Victorian England and were large and ornate? Styles have changed over time, but cornices are still as popular as ever.

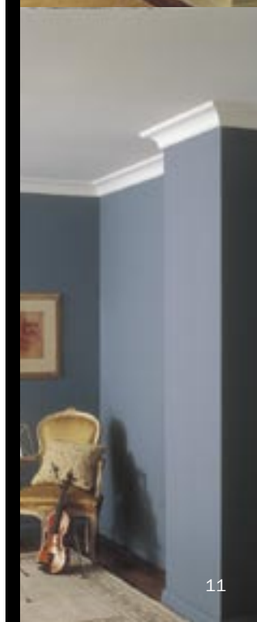
Gyprock Tempo™ Cornice gives a room a real ‘edge’ with its multiple shadow-line affects and creates a crisp, modern feel.

If a cool, retro mood is what you want in your home, look no further than Jazz™ Cornice, from CSR Gyprock®.

With a distinctive three step profile, Gyprock Jazz™ Cornice features dynamic, symmetrical lines and angles that create an art deco mood with a modern twist.







You Always Need a Plan

The success of all aspects of your renovation project is heavily influenced by the amount of initial planning you undertake. Proper planning will help you ensure your vision for the renovation project is realised, and your budget is adhered to by ordering the correct range and quantities of materials from your CSR supplier.

The layout on the opposite page shows a before and after plan of an actual home renovation.

You will see that each CSR product used has been represented by a different colour or shape.

We recommend you lay out your plan in a similar fashion – this can be done using the fold out planning grid, inside the back cover of this guide.

The size of your renovation will govern the scale you use on the plan – getting the scale exactly correct is not imperative – ensuring you mark accurate measurements of the renovation space is key.

Correct measurements will ensure you order the right material quantities, and by using a colour code to plan your renovation you will be sure that you have not missed out any high performance products that would enhance the finished project.

The floor plans are designed to help you match the various types of Gyprock® plasterboard to the appropriate areas of your home.

Quiet areas

Use the Gyprock Soundchek™ system to create quiet areas in your home. Ideal for areas adjoining bathrooms, kid's bedrooms, kitchens and rumpus areas, as well as downstairs ceilings in multistorey homes. As exterior noise is an ever increasing problem it needs a total system solution. Many building components need to work in unison to reduce noise issues around the home. The Soundcontrol systems dramatically reduce the penetration of noise into homes, combining special acoustic building products like Gyprock® sound rated walls and ceilings, insulation, roofs, and exterior walls in tailor made packages.

Fire risk areas

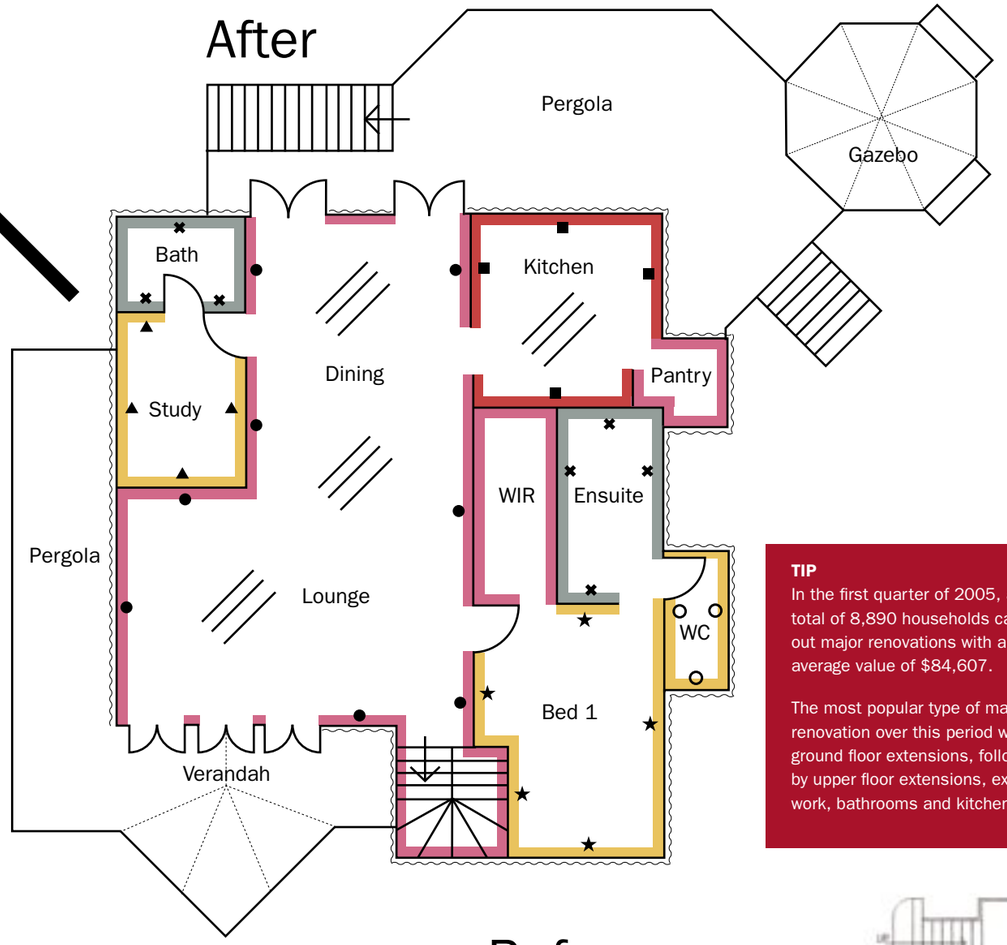
Areas next to kitchens and work rooms can be protected from fire spreading and moisture damage with Gyprock FlamechekMR™ plasterboard. Use on kitchen walls, ceilings and in garages.

Tough areas

Gyprock Impactchek™ plasterboard helps protect high traffic areas in your home, like hallways, foyers, garage lining and stairwells.

Wet areas

The bathroom and the laundry can be protected from the effects of moisture by using Gyprock Aquachek™ plasterboard for walls and ceilings or CSR Cemintel™ Fibre Cement for walls.



TIP
In the first quarter of 2005, a total of 8,890 households carried out major renovations with an average value of $84,607.

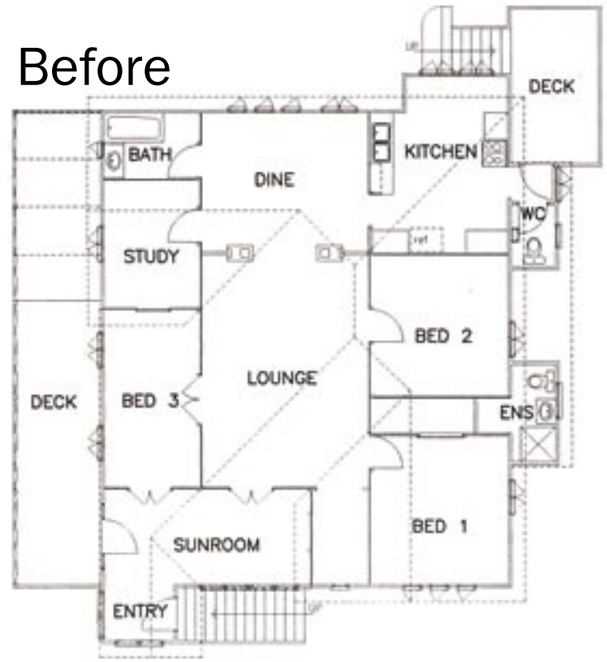
The most popular type of major renovation over this period was ground floor extensions, followed by upper floor extensions, external work, bathrooms and kitchens.

Ceiling
Supaceil™

Plasterboards
Soundchek™
Impactchek™
Aquachek™
FlamechekMR™

Exterior
Cladding
ExpressWall™

Cornices
Symphony™
Classic
Concerto™
Tempo™
Cove
Jazz™



Street Appeal

When Louis and Sandra Jasienski of the NSW Central Coast decided to renovate their home by re-cladding the home's exterior and adding a new rear extension, their main objective was to create a home with a modern feel that would provide low maintenance into their retirement.

We are extremely pleased with the result and the design flexibility of the system. Rarely a day goes by that we don't receive some positive feedback about our 'new house'.

Louis Jasienski

External Texture Coating

Trends towards simple external styles in renovations and new home building means many homeowners are choosing the textured finish of CSR's External Texture Coating System.

With specifications to suit both modern and contemporary styles, External Coating presents the opportunity to easily create your own individual style.

The Cemintel™ External Texture Coating System is a complete, three part jointing and coating system designed specifically for use over CSR Texture Base Sheet and Rendaline™.

Typical applications include new homes, second storey additions and renovation of existing homes.

The system has been developed so that applicators and builders will have the confidence in using a complete warranted system, when used on CSR Texture Base Sheet or Rendaline™.

cemintel™
fibre cement systems

Cladding Plank

Spending countless weekends removing blistering paint from the outside of your house is not anyone's idea of fun. By choosing Cladding Plank System from CSR you have the option of a smooth or woodgrain exterior finish that will last longer in the elements than conventional materials.

Cemintel™ Fibre Cement Cladding Plank System is an autoclaved, cellulose fibre reinforced, cement product. Fibre Cement Cladding Plank is a flat board profile and is available in 230mm and 300mm width with a smooth, woodgrain or cross-cut textured finish.

Once installed Cemintel™ Fibre Cement Cladding Plank can be coated with an exterior grade paint to provide a durable finish.

Residential ExpressWall™

If you want to update the look of your home without tearing down the existing structure, then Cemintel™ Residential Express Wall™ Façade System provides a modern solution to conceal most structural materials.

Residential Express Panel can be finished with a wide variety of exterior grade acrylic paints or aggregate finishes resulting in a high degree of design freedom.

Construction Guide

While it is important to firstly consider the level of renovation that you can undertake yourself, bearing in mind the time, budget and skill resources you have available – there are some common tips that are important to any renovation project.

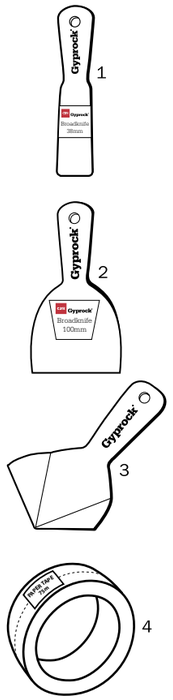
Planning your project in full must be the first thing undertaken. If you are undertaking the project yourself, proper planning will allow you to ensure the outcome you have visualised can be achieved with the budget and time line you have - correct planning will also ensure you have the proper tools, and the right amount of materials for the project.

If you are going to employ the services of a professional, your planning process will allow you to determine exactly what services you need to employ and what you may be able to undertake yourself – maximising your budget and ensuring the project is achievable in the time you require.

The following pages are a basic guide on how to prepare and install High Performance products.

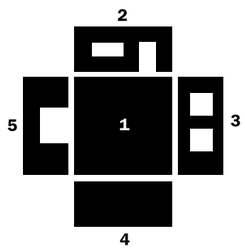
Tools of the Trade

CSR Gyprock® has a wide range of purpose designed tools available to make your renovation project easier, and as professional looking as possible. Some people will have these tools available to them already, but if you have some gaps that need filling you need to look no further than your local Gyprock® supplier or major hardware store.



Measuring for Materials

Once you have determined the scope of your renovation project you need to carefully calculate the amount of material that is required. If your project covers more than one area of the home we recommend you map out each area separately and record the measurements of each component visually to ensure you do not overlook anything.



How to Measure up for Ordering

- Draw a diagram of each room opened up like a shoebox. You do not have to draw it to scale. Just mark all the measurements on it, including windows and doors.
- Take your diagram along to your Gyprock® plasterboard supplier. They will help you work out how many sheets of Gyprock® plasterboard, lengths of cornice, and quantities of accessories you will need.

TOOLS

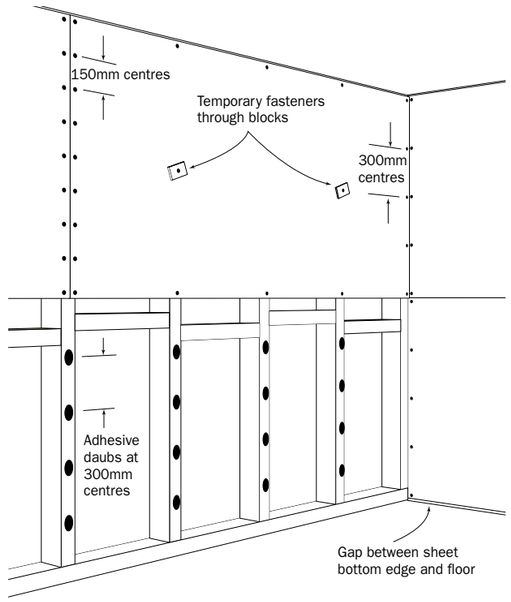
1 Broadknife 38mm
2 Broadknife 100mm
3 Corner Trowel
4 Paper Tape
5 Mitremasta
6 Hand Sander
7 Pre-Mixed Total Joint Cement
8 Stud Adhesive

Frame Inspection

- For the best results, check all the wall studs, noggings and ceiling joists with a straight edge. Make sure they are level and square.
- Plane back or pack out uneven members as necessary.
- Remove or hammer down any protruding nails. To ensure a good bond, make certain all the surfaces to which you will fasten the plasterboard are dry and free of dirt or grease.

Cutting Gyprock® Plasterboard

- Mark the sheet to the length required. Double check the measurement to ensure you will only have to cut once.
- Always cut the face side first (non-printed side). Using a straight edge or T-square for straight knife cuts.
- Push the off-cut down and snap the sheet along the score line.
- Cut along the fold line from the back of the sheet (printed side) and remove the off-cut.
- Use a saw for cuts where openings are needed and a keyhole saw for openings such as arches.

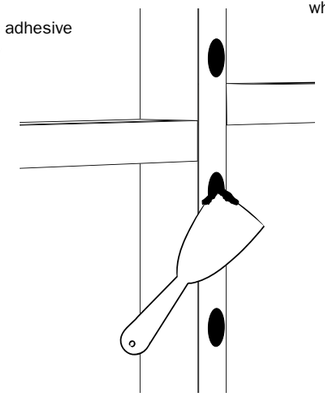


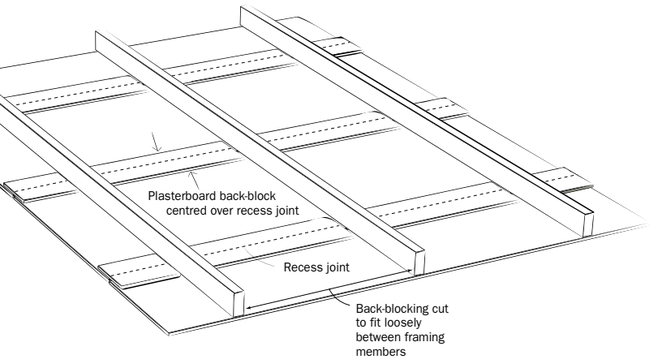
Fixing to Walls

- Lift the sheet about 10mm from the floor by placing a few off-cuts of plasterboard beneath your sheet.
- Butt the sheet edge up to one corner. Apply the Gyprock® Plasterboard horizontally, (paper bound edge at right angles to the studs).
- Using 30mm ring shank nails (or suitable screws) 10 to 16mm from sheet edges, fix one recessed edge at each stud. Press the sheet firmly against the studs and fix along the opposite edge. Where sheet ends butt together, nail or screw at 150mm centres. Nail or screw every 300mm around all doors, windows and other openings. Drive the fastener heads just below board surface taking care not to break the face paper.
- Drive nails or screws through small plasterboard off-cuts into every second stud to temporarily hold sheets firmly while adhesive dries, (24 hours minimum).

Applying Adhesive

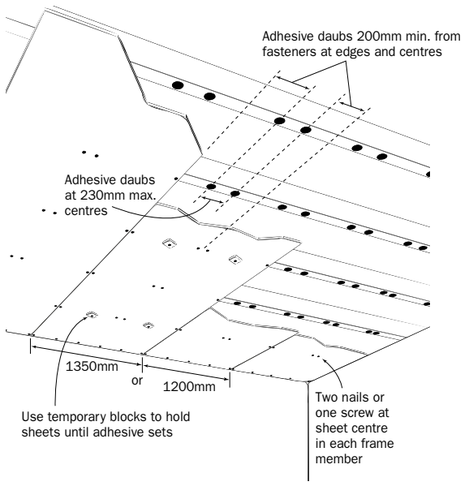
- Cut the Gyprock® plasterboard to length, either to fit neatly corner to corner, or so that the end will align with the centre of a stud.
- Using a 38mm broadknife, place daubs of Gyprock® Stud Adhesive about 25mm diameter and 15mm thickness on the studs at 300mm maximum spacings. Begin at least 200mm from where the edge of the sheet will go. Do not place adhesive on studs behind the ends of sheets, and always keep adhesive at least 200mm from any nail or screw location.
- Do not nail or screw into adhesive daubs as shrinkage may expose the nail head.





Fixing Gyprock® Plasterboard to Ceilings

- Apply adhesive at 230mm maximum centres and ensure all daubs are at least 200mm from any fastening point.
- Place sheet at right angles to the joists. Fasten one recessed edge at every joist, press the sheet firmly against the framing and fix the opposite edge to every joist.
- At the centreline of sheets, fasten with two nails 75mm apart or one screw to each joist.
- Fasten temporary plasterboard off-cuts to hold sheets firmly against joists while adhesive dries (up to 48 hours for ceiling). See illustration.



NOTE

- To place ceiling sheets in position against joists requires a lift by two people. Alternatively a good idea is to hire a plasterboard lifter.

Back-Blocking of Recessed Joints on Ceilings

- When using Gyprock® Easytape or when using paper tape, where 3 or more recessed joints occur in a continuous ceiling area, all recess joints must be back-blocked.
- Cut back-blocks of at least 200mm width and long enough to fit loosely between the framing members.
- Apply Gyprock® back blocking cement to the entire face of backblock with a notched spreader. Form 6mm x 6mm beads at approximately 20mm centres at right angles to the joint.
- Apply Gyprock® plasterboard with the long edges at right angles to the joists or battens. Place back-blocks along the full length of the sheet joint. As soon as all the blocks are in position, install the adjoining sheet.
- If preferred, back blocks may be cemented into position by working above the ceiling after the sheets have been fixed. Back-blocks must be cemented in position before the joints are finished.

NOTE

- For best results on ceilings, it is preferable to use full length sheets which extend from wall to wall, to eliminate the need for butt joints. Where butt joints are necessary, please consult your Gyprock® plasterboard supplier for back-block installation advice.

Jointing Recessed Joints

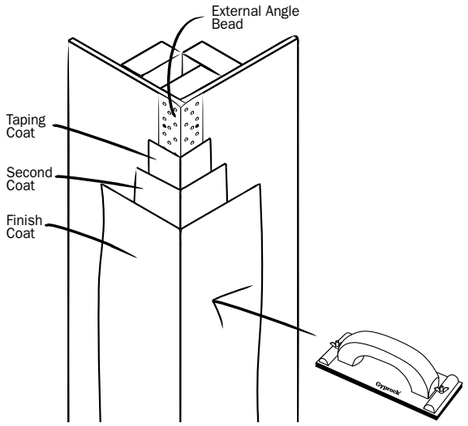
Taping coat

- Apply Gyprock® Multi-Purpose Compound first, and then bed in paper tape with a broadknife, along the full length of the joint.
- Using a 150mm broadknife, apply a layer of Gyprock® Multi-Purpose Compound to completely cover Paper tape, filling up recessed area until it is level with surface of the sheet.
- Allow at least 24 hours to dry. The cement should appear dry.

Second coat & Finishing Coat

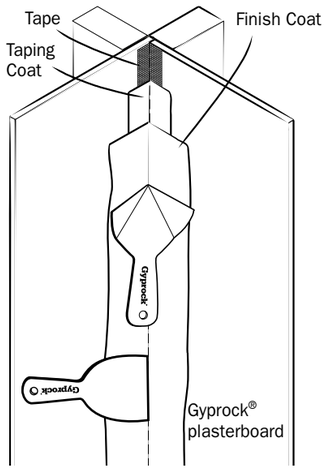
- When the tape coat dries, sand off any excess and lumps. Apply a second coat to a width of 180mm. Allow 24 hrs to dry.
- When the second coat dries, apply a finishing coat of Gyprock® Final Finish Jointing Compound with a 250mm curved trowel. Feather the edges about 50mm beyond edges of the previous coat. Allow at least 24 hours to dry. The cement should appear dry.

CSR has an extensive range of comprehensive, product specific DIY material available. If you require further information on the preparation or installation of any CSR wall and ceiling products you can visit **www.gyprock.com.au** or call 131 744 to request them.



External Corner

- Position External Angle Bead over the corner and ensure straightness before fixing with ring shank nails or screws.
- Apply three coats of Gyprock® Multi-Purpose Compound in a similar manner to that used on a recessed joint.
- When completely dry, sand lightly.

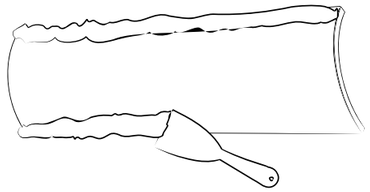


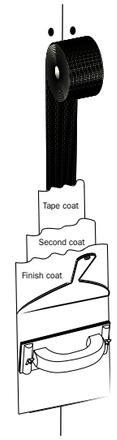
Internal Corner

- Fold Gyprock® paper tape along its centreline and apply along the full length of the joint.
- Using an internal corner trowel, apply two coats of Gyprock® Mulit-Purpose Compound, extending at least 125mm each side of the joint.

Butt Joint

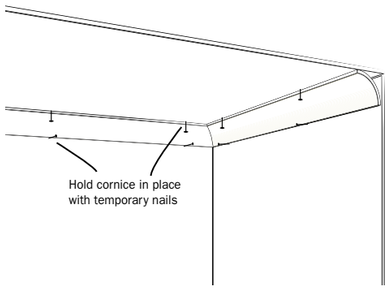
- Use three coats of Gyprock® Multi-Purpose Compound as for a Recess Joint but expand the joint width proportionally to 500mm wide.
- When completely dry, sand lightly.





Applying Cornice Cement

- Mix Gyprock® Cornice Cement as per the instructions on the pack.
- Apply Cornice Cement continuously to the back of the cornice along the top and bottom edges to about 10mm thick.
- Butter internal and external mitres with Cornice Cement.



Fixing Cornice and Cleaning

- Each section should be buttered and fixed separately, starting with shorter lengths.
- Press cornices into position in the joint between the wall and the ceiling, expelling surplus cement.
- Hold cornice in position using temporary nails.
- Remove surplus cement with a small broadknife and clean down with a brush or sponge. Use surplus cement to fill and smooth off mitres.

SANDING

- Using sandpaper (150 – 180 grit) and sanding float, carefully sand the joint to a smooth, even finish.
- You will get best results by using a sanding float diagonally across the joint. Avoid scuffing the paper face of the plasterboard where it meets the jointing cement.

Cladding Plank

Advantages for Use

- ✓ Achieves the natural look of timber with minimal maintenance.
- ✓ Immune to permanent water damage.
- ✓ Fire resistant.
- ✓ Termite resistant.
- ✓ Lightweight construction method.
- ✓ Provides a tough, durable cladding system.

Applications

Cemintel™ Fibre Cement Cladding Plank can be used in any external applications including:

- Upper and lower storey additions.
- Composite construction.
- Renovating of existing walls.
- Gable ends.
- Infill panels around windows and doors.
- Garages, toolsheds and fencing.

Cemintel™ Fibre Cement Cladding Plank may be fixed to timber or steel framing. Joint treatments include concealed joints, PVC joint strips, metal corners or timber mouldings.

HIGH WIND AREAS

The fixing systems in this manual are designed for non cyclonic regions. Information relating to other design wind speeds can be obtained from your CSR Building Materials State Office.

Framing

CSR Cemintel™ Fibre Cement Cladding Plank may be fixed to either timber or steel framing.

Timber framing must comply with AS1684 : 1992 National Timber Framing Code.

Metal framing must comply with AS3623 : 1993 Domestic Metal Framing.

Studs must have a minimum fixing face width of 38mm, and be spaced at maximum 600mm centres. Inspect the frame carefully for bowed, warped, or twisted studs; and for alignment of all framing members. Timbers that are not flush should be packed out or straightened.

Installation

Preparation

Prior to fixing planks the following procedures should be completed:

- Set a horizontal datum or base line around the perimeter of the building. Use a spirit or water level, and mark with nails and string line.
- Calculate the number of planks required. This is done using the Plank Coverage Calculator table, together with some simple calculations. The calculations are based on the average width of a plank and the minimum recommended overlap.

To calculate the number of planks required for your project:

a) Measure the length of the walls to be clad.

b) Divide this by 4.2m (the standard length of a plank). This will give you the number of planks required for the perimeter.

c) Measure the height of the wall. Select the higher number closest to your wall height from the table under the appropriate plank width. Determine the number of plank rows required from the left hand column.

d) Multiply the number of rows by the number of lengths [as calculated in step (b)] to calculate the total number of planks required.

Board Width	230mm	300mm
Board Lap	25mm	25mm
Number or Rows	**Wall Height (Coverage) mm**	
1	230	300
2	435	575
3	640	850
4	845	1125
5	1050	1400
6	1255	1675
7	1460	1950
8	1665	2225
9	1870	2500
10	2075	2775
11	2280	3050
12	2485	3325
13	2690	3600
14	2895	3875
15	3100	4150

Cemintel™ External Texture Coating System

Description

Cemintel™ Fibre Cement Texture Base Sheet is an autoclaved, cellulose fibre reinforced cement sheet.

Texture Base Sheet is light blue in colour and features a recess on the two long edges which facilitates concealed joint construction.

Once installed a proprietary coating system can be applied to provide a seamless finish that is weatherproof, strong and durable.

An appraisal by the Building Research Association of New Zealand (BRANZ Appraisal Certificate №98/009), confirms the suitability of the CSR Fibre Cement Texture Base Sheet for Applied Finish Systems detailed in this technical literature.

Advantages

TEXTURE BASE SHEET

- Immune to permanent water damage.
- Fire resistant.
- Termite resistant.

COMPLETE SYSTEM

- Lightweight construction.
- Reduced construction time.
- Seamless finish.
- Provides a tough, durable system.
- Accepts a wide range of colours and textures.

Applications

Cemintel™ Fibre Cement Texture Base Sheet provides a solid substrate for applied decorative finishes.

Our substrate system combined with a proprietary jointing and coating system is suitable as a wall cladding for new homes, re-cladding of existing homes, extensions, upper storey additions and light commercial applications using domestic construction techniques.

For other applications please contact the CSR Building Materials Office in your state.

Design Considerations

FRAMING

Studs must have a minimum fixing face width of 38mm at sheet joints, otherwise additional support framing is required.

Timber framing must comply with AS1684 ‘Residential Timber Framing Construction’.

Timber with an equilibrium moisture content of less than 16% at the time of cladding application must be used. Unseasoned timber prone to shrinkage must not be used.

Metal framing must comply with AS3623 ‘Domestic Metal Framing’, and have a BMT of less than 1.6mm.

Timber or metal battens shall be fixed over hot rolled steel or cold rolled purlins, before sheets are fastened. Refer to ‘Components’ for appropriate screw information.

SHEET TOLERANCES

Cemintel™ Fibre Cement sheets are made to specific tolerances. Ensure sheet layout is not overly sensitive to these variations, or results in an accumulation of tolerances at certain locations.

Process

The Cemintel™ Fibre Cement External Texture Coating System is a simple three part process:

1. Fill the joint recess with CSR™ External Jointing Compound. Embed CSR™ External Jointing Tape into the compound with the smooth side out. Apply CSR™ External Jointing Compound evenly over the tape using a stainless steel broad knife.
2. Apply CSR™ Skim Coat in the same direction as the joint using a stainless steel trowel.
3. Apply CSR™ Texture Coat using a stainless steel and plastic trowel. Then apply final paint finish using a standard paint roller.

CSR has an extensive range of comprehensive, product specific DIY material available. If you require further information on the preparation or installation of any CSR wall and ceiling products you can visit **www.csrfibrecement.com.au** or call 131 744 to request them.

Finishing Touches

It is the finishing touches that make your house a home that reflects your own personal creativity.

Colour and lighting are the two artistic elements that transform the living environment, setting the style and tone.

It is a well known fact that colour can affect your mood and therefore, have an impact on your overall well being. Optical illusions can also be achieved with the creative use of colour, making your home appear more spacious.

Different paint finishes can also be used to add texture and depth, complementing your own interior theme.

The one thing you can be sure of is change! Your own personal taste in colour is often affected by the subtle changes in design that you are exposed to through magazines, T.V. or just visiting your friends newly renovated house.

A change of colour can help you adopt the latest interior design trend without too much disruption or cost.

Lighting gives you the power to convey intimacy, provide a touch of sophistication and enhance your home's unique architectural detail through special effects. Good lighting is more than just providing adequate lighting to see with, it's the artistic element that enhances and completes your design.

A lighting designer will be able to help you choose the most effective lighting to suit your design. Before you begin construction, ensure you have designed an effective lighting plan so that allowances can be made for wiring and cabling.

For a list of designers contact **www.gyprock.com.au**

The Checklist for a Perfect Project

Dream up your idea

Know your budget

Plan your renovation space

Plan your project timeline

Calculate your material quantities

Know your skill limits

Consult your CSR supplier for help

Have Fun!

TIP
For the best looking ceilings use recessed or low hung lights that do not reflect across the ceiling. Always paint with lighter colours and flat paints.

Higher ceilings create a feeling of space and style. Rooms keep cooler in summer, as hot air rises they are more easily ventilated.

Notes

Ensure you get the range and quantity of high performance products you need to make your renovation a success. Utilise this page to make notes that are key to your project planning.

The Planning Grid

CSR