



cemintel™
CREATE AND CONSTRUCT

CSR

CSR CEMINTEL™

DECKING SYSTEMS



FC:125



EXTERNAL DECKING SYSTEMS

AUGUST 2012

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DESCRIPTION

Cemintel™ Compressed Sheet is a compressed, autoclaved, cellulose fibre reinforced, cement sheet.

Compressed Sheet has a smooth flat surface and a square edge finish.

It is a dense, high strength, durable building product.

APPLICATIONS

Cemintel™ Compressed Sheet provides a solid substrate for external decking, both upper and lower storey verandahs, and non-saltwater pool surrounds in residential buildings.

Our substrate system combined with the required waterproofing system may then be covered with your selection of tiles, pebble finishes, synthetic turf, outdoor carpets or suitable paint.

ADVANTAGES

- Tough durable substrate.
- Immune to permanent water damage.
- Immune to termite attack.
- Will not rot, warp or burn.
- A suitable substrate for all forms of finishing.

DESIGN CONSIDERATIONS

DRAINAGE

Regardless of whether the deck is to be waterproof or not, decks must have a fall to facilitate drainage and prevent ponding. Decks must not be constructed level, and a fall of at least 1 in 100 is recommended. Where possible the fall should be provided in the framing, or as an alternative may be provided in a topping screed.

Whenever possible avoid draining into a sump as this can lead to water building up to a depth above flashings. If this is unavoidable, the mortar bed with separating layer system must be used. The use of a gutter at the edge of the deck can assist in the reduction of staining and prevent water tracking under the tiles and membrane.

The interior floor level at doors and other openings must be at a sufficient level above the finished deck surface to prevent water entering the building. The step should be at least 100mm, and equal to the membrane vertical upward termination height.

MEMBRANES

Waterproofing membranes should be installed in accordance with AS 4654.2 Waterproofing membrane systems for exterior use - Above ground level Part 2: Design and installation.

Membranes may be required to resist a range of conditions, including chemical attack, ultra-violet light, heat aging, and temperatures from -15°C to +85°C. Low temperatures can result in reduced flexibility, and high temperatures can result in softening of the membrane.

The code has specific details for the termination of membranes at vertical upward and downward locations. For decks up to 4m from the ground in wind classifications N1 to N3 and C1, the vertical upward termination height is 100mm. This increases for higher wind classifications and exposure conditions, and for greater deck heights.

The details include methods of sealing, anchoring and protecting the membrane terminations.

LOADS

Cemintel™ decking systems have been designed to resist a live load of 3.0kPa and a 1.8kN point load.

FRAMING

Decks may be constructed using timber joists or steel framing up to 2.0mm base metal thickness (BMT). Contact CSR Cemintel™ for fixing information where steel BMT is greater than 2.0mm. Timber Joists and trimmers must have a minimum face width of 45mm. Joists must run in the direction of the fall. To reduce edge trimming, the long edge of the compressed sheets should be installed parallel to the joist direction.

Handy Hint: Wherever possible, plan joist and sheet layout to coincide with tile modules to avoid the need to cut tiles.

All compressed sheet edges must be supported by a framing member. (Where sheets are cantilevered at the outer edge of a deck, sheet edges must not extend more than 100mm beyond the frame/support.)

Sheet joints must be constructed with a 5mm minimum gap, and joist spacing must be adjusted to accommodate.

Joist spacing is to be:

Sheet Thickness (mm)	Sheet Width (mm)	Joist Centres (mm)
15	900	453
15	1200	402
18	1200	603

MOVEMENT JOINTS

All joints between compressed sheets must be constructed as movement joints to allow for differential movement in the materials and the structure.

COASTAL AREAS

Cemintel™ Compressed Sheet decking systems are suitable for use in coastal areas, which are defined as being within 1km of a beach with breaking surf, or up to 200m from a non-surf beach shoreline. Consideration must also be given to local weather and topographical features which can increase the distance that salt spray can travel, extending these areas.

To resist corrosion in these areas, fixings and steel framing must have suitable corrosion resistance.

COMPONENTS

CEMINTEL™ COMPRESSED SHEET

Cemintel™ Compressed Sheets are available in the following sizes for decking.

Thickness (mm)	Width (mm)	Length (mm)					
		1500	1800	2100	2400	2700	3000
15	900	✓	✓	✓	✓	✓	✓
	1200	✓	✓	✓	✓	✓	✓
15	900	✗	✓	✗	✓	✗	✓
	1200	✗	✓	✓	✓	✗	✓

Cemintel™ Compressed Sheet is available cut to size from some distributors.

CEMINTEL™ CLADDING SHEET

Cemintel™ Cladding Sheets for use with the drip sheet system are available in the following sizes:

Thickness (mm)	Width (mm)	Length (mm)				
		1800	2100	2400	2700	3000
4.5	900	✓	✗	✓	✓	✓
	1200	✓	✓	✓	✓	✓

COUNTERSINKING TOOL

A tungsten carbide tipped tool specifically designed for drilling and countersinking.

Order N°	Description
22116	Countersinking Tool



JOINT SEALANT

Used to seal sheet joints.



Order N°	Description	Colour
11378	Sikaflex™ PRO, 310ml tube	Grey

Prime surfaces as recommended by the manufacture.

BACKING ROD

Polyethylene Foam Bead used to enable correct filling of joints with sealant.



Order N°	Description
11177	ø10mm x 50m roll

Note: The following system components are not supplied by CSR.

FASTENERS

• Screws for fixing Compressed Sheets:

For timber framing, use N°10 x 50mm hot dip galvanised steel or brass, countersunk head wood screws.



For steel framing, use N°10 x 30mm Countersunk head TEK screws.

• Screws for fixing Drip Mould:

N°8 x 15mm hot dip galvanised steel, countersunk head, metal thread self-tapping screws.



• Nails for fixing 4.5mm thickness Cladding Sheet:

2.0 x 25mm hot dip galvanised nails.

• Nails for fixing 7.5mm thickness Cladding Plank

Packing Strips:

2.8 x 40mm hot dip galvanised nails.

Note: Class 4 screws and stainless steel nails should be used in coastal areas.

SLIP SHEET

0.2mm Polyethylene (Polythene) sheet to AS2870.

MEMBRANE

A flexible sheet or liquid membrane to AS4654.1 as required for the system (may incorporate joint reinforcing).

MORTAR BED AND STEEL REINFORCEMENT

As required for the system to AS3958.1.

WALL/FLOOR JOINT FLASHING

PVC Angle Mould 4mm x 47mm x 47mm.

EDGE DRIP MOULD

Aluminium or PVC Angle 12mm x 12mm.

DRIP SHEET

0.2mm Polyethylene (Polythene) Sheet to AS2870. 48mm reinforced aluminium foil tape (493 tape or equivalent).

FLASHING

Alcor or equivalent.

SYSTEM SELECTIONS

A number of systems are available for different applications, surface finishes and drainage conditions. Refer to Table 1 for details.

For upper storey decks over habitable rooms, select from the waterproof systems range. Where waterproofing is not critical, such as over non-habitable ground, the water resistant system may be used.

WATERPROOF SYSTEMS

MORTAR BED WITH SEPARATING LAYER

The Compressed Sheets are laid directly on joists and covered with a waterproof sheet membrane. A separating layer or slip-sheet then separates the membrane from the mortar bed to accommodate minor movement.

Drainage to the deck edge may be provided by fall in the sheets or in the mortar bed, or the mortar bed may drain to a sump. Control joints in tiling need not correspond with sheet joints.

DRIP SHEET SYSTEM

This system uses a non-structural fibre cement sheet to support a plastic sheet that drains to the edge of the deck. Cemintel™ Compressed Sheet is then laid on packing strips, over the drip sheet, to form a substrate for tiles or other trafficable surfacing. Control joints in tiling must correspond with sheet joints.

The system is suitable for decks up to 3m wide, and sheet joints remain accessible for maintenance.

TILES WITH LIQUID MEMBRANE

This system has an applied waterproof membrane directly over the Compressed Sheet. Tiles are fixed over the membrane, and drainage is provided by fall in the sheets. Control joints in tiling must correspond with sheet joints.

TRAFFICABLE MEMBRANE

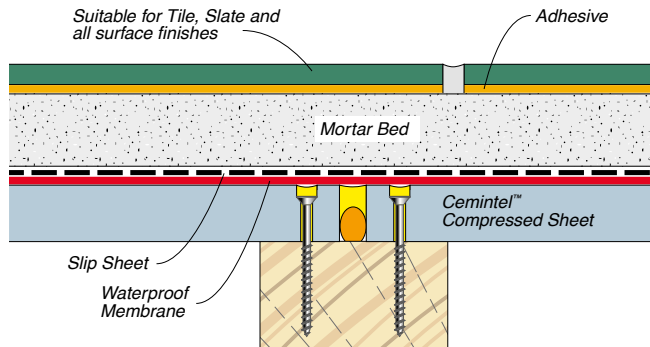
Membrane systems, laid directly over Compressed Sheet, are available that are suitable for foot traffic.

WATER RESISTANT SYSTEM

The Compressed Sheets are laid directly on joists and protected with tiles or other surface material. Drainage is provided by fall in the sheets and control joints in tiling must correspond with sheet joints.

SYSTEM SELECTION TABLES

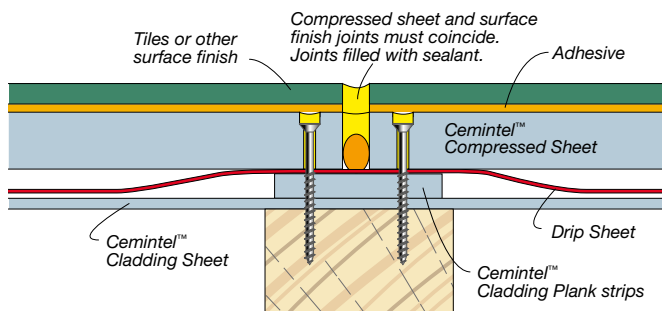
MORTAR BED WITH SEPARATING LAYER



SYSTEM DESCRIPTION

- Drain to edge of deck or sump.
- Tile control joints need not correspond with sheet joints.
- Suitable for all deck widths.

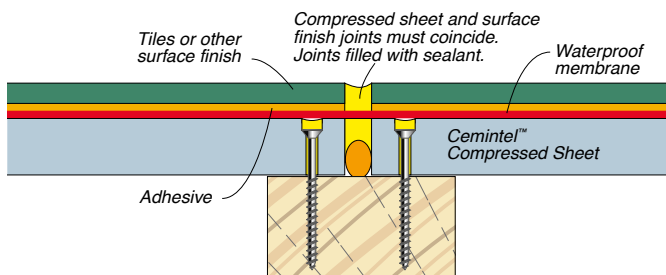
DRIP SHEET SYSTEM



SYSTEM DESCRIPTION

- Drain to edge of deck.
- Tile control joint must correspond with panel joints.
- Maximum 3m deck width.

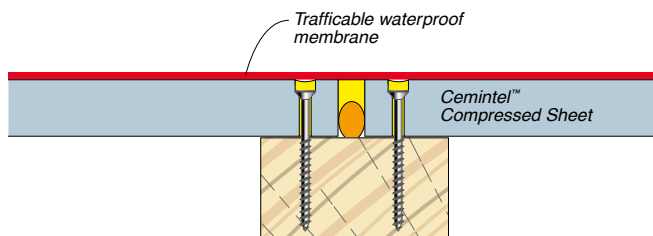
TILES WITH LIQUID MEMBRANE SYSTEM



SYSTEM DESCRIPTION

- Drain to edge of deck.
- Tile control joint must correspond with panel joints.
- Suitable for all deck widths.

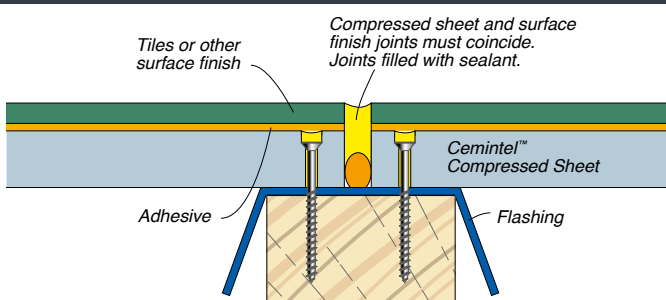
TRAFFICABLE MEMBRANE SYSTEM



SYSTEM DESCRIPTION

- Drain to edge of deck.
- Suitable for all deck widths.

WATER RESISTANT SYSTEM



SYSTEM DESCRIPTION

- Drain to edge of deck.
- Tile control joint must correspond with panel joints.
- Suitable for all deck widths.
- Suitable for paint finish.

MORTAR BED WITH SEPARATING LAYER

This system has compressed sheet fixed directly to floor joists, with a flexible membrane installed on top to provide waterproofing.

The flexible membrane is covered with a separating or slip sheet, and a reinforced mortar bed is then laid to support the tiles or other finish.

This system may be used for decks that exceed 3 metres in width, and it is ideal for decks where drainage is restricted or directed to a central sump.

Control joints in the mortar bed/finish do not have to coincide with compressed sheet joints. This allows uninterrupted tile surfaces of up to 4.5m x 4.5m between control joints to suit the tile module.

INSTALLATION

FIXING AND JOINTING SHEETS

Refer to the following diagrams and to page 13 of this manual for compressed sheet fixing and jointing instructions.

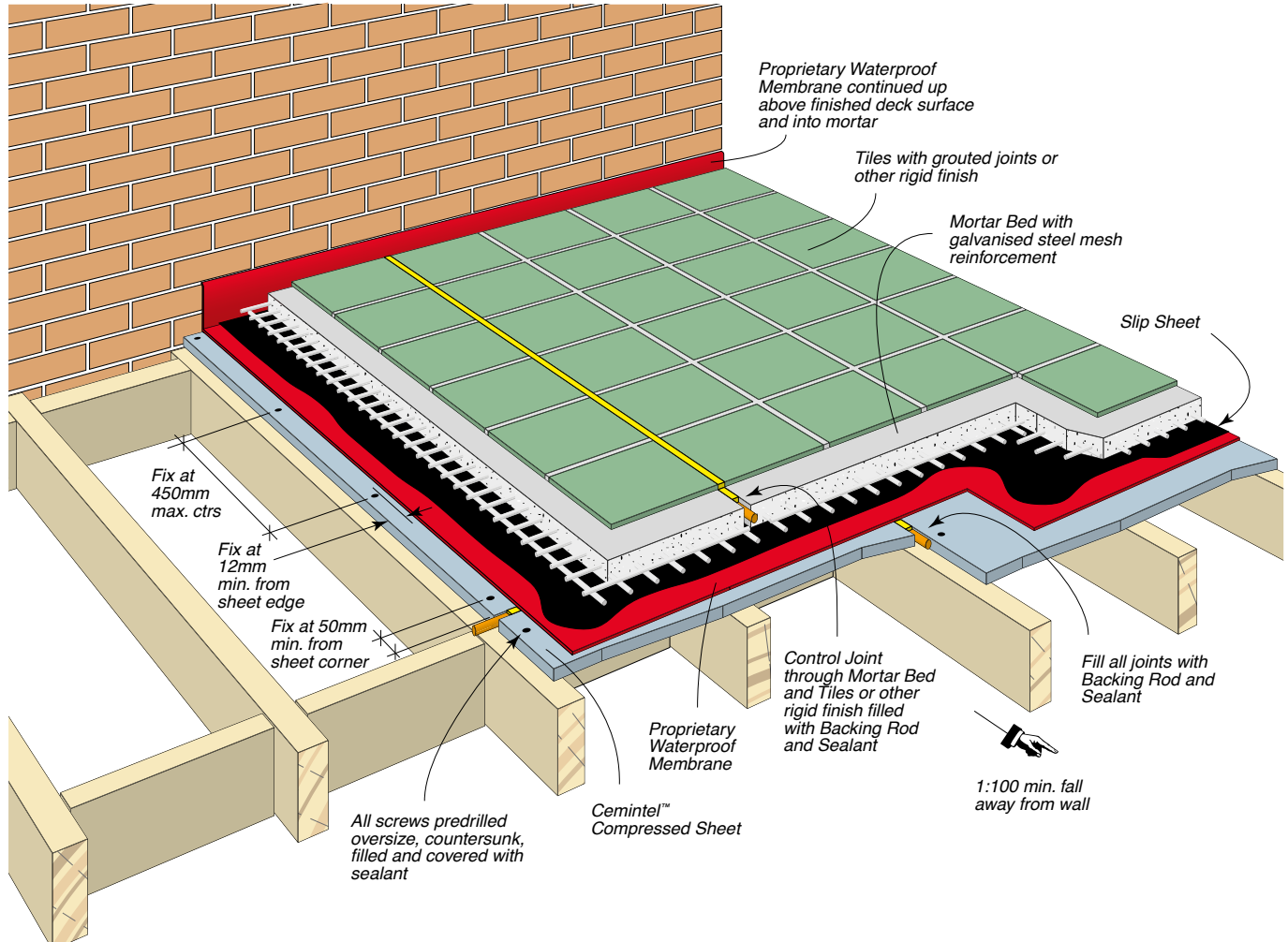
MEMBRANE

A proprietary membrane system must be used. This should be installed by a specialist waterproofing contractor, and a waterproof guarantee provided.

SEPARATING LAYER

To protect the membrane during tiling, and to separate the movement of the substructure and the tiled surface, a heavy duty plastic sheet must be installed over the membrane.

FIG 1: Construction of Mortar Bed with Separating Layer



MORTAR BED

A mortar bed is laid over the slip sheet to provide a suitable surface for tiling.

Control joints must be installed at 4.5m maximum spacings in both directions.

The mortar bed must be 40mm minimum thick and reinforced with galvanised mesh.

The mortar bed should be allowed to cure for approximately 10 days before tiling commences.

TILING

Do not tile over control joints in the mortar bed.

When selecting tiles ensure they are suitable for external use. An appropriate adhesive recommended for external use must be used.

In all cases, the tile and tile adhesive manufacturer's instructions should be followed.

For further advice, refer to Australian Standard AS3958.1 'Guide to the installation of ceramic tiles'.

FIG 2: Wall/Floor Junction Option 1

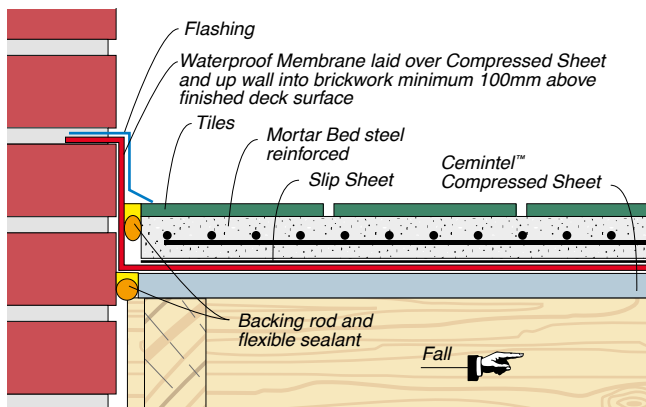


FIG 4: Edge Finish

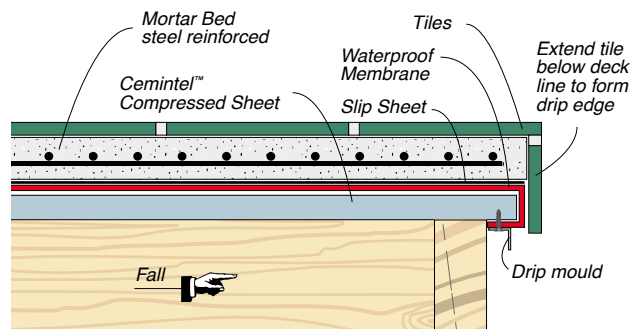


FIG 3: Wall/Floor Junction Option 2

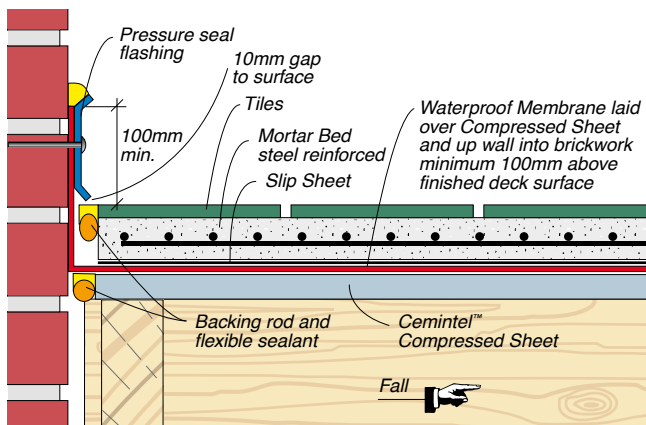


FIG 5: Control Joint Through Mortar Bed and Rigid Finish

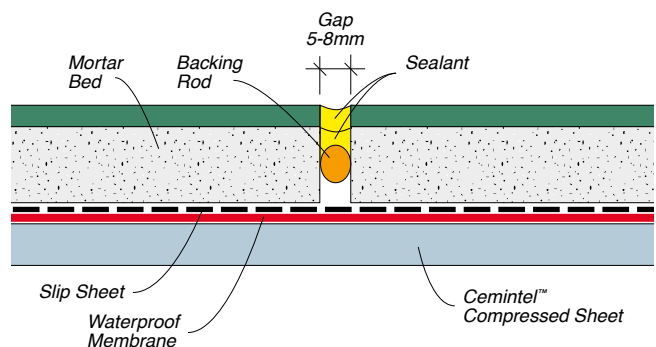


FIG 6: Door Sill

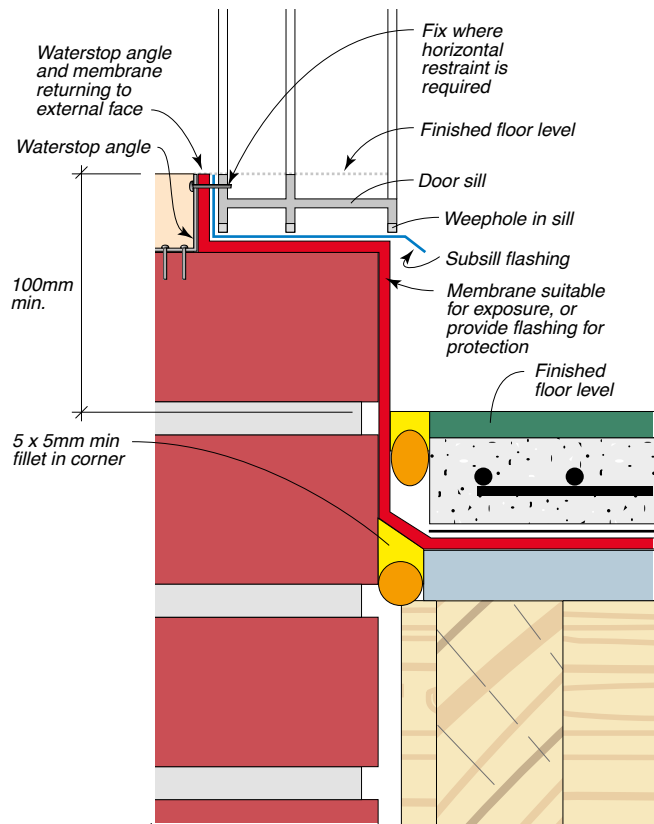
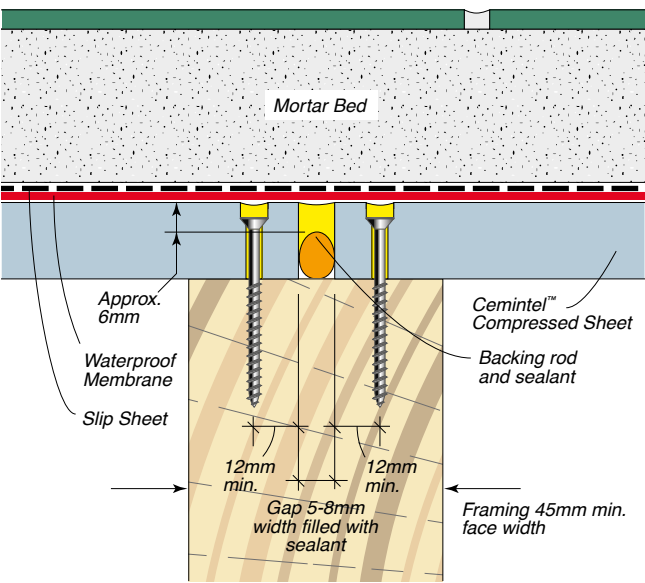


FIG 7: Sheet Fixing and Jointing



DRIP SHEET SYSTEM

The drip sheet system consists of fixing 4.5mm thick Cemintel™ Cladding Sheet to the floor joists, which is then covered with a heavy duty plastic Drip Sheet supported on packing strips.

The compressed sheet is then installed over the top. All joints and screw heads are filled with sealant. A trafficable surface is then applied.

Decks must be constructed with adequate drainage. This system is not suitable where water is directed to a central sump. The deck must not exceed 3 metres in width as joint supports interrupt drainage.

INSTALLATION

DRIP SHEET AND SUPPORT

Cemintel™ Cladding Sheet of 4.5mm thickness is fixed to floor joists to support the plastic drip sheet. Nail cladding sheet to all joists at 200mm centres maximum using 2.0 x 25mm nails. Nails must be minimum 12mm from sheet edges and 50mm from corners.

Strips of Cemintel™ Cladding Plank 7.5mm x 40mm or 50mm are positioned directly over joists and nailed into position using 2.8 x 40mm nails.

Drip sheet must be slightly dished between packing strips so it can act as a self draining chamber to dispose of condensation.

The plastic drip sheet is installed to control condensation and temporary minor leaks. Overlap all joints and seal with tape.

Allow for a minimum downturn around outside edges of 150mm, and an upturn of at least 50mm above finished floor level at walls and vertical surfaces.

FIXING COMPRESSED SHEET

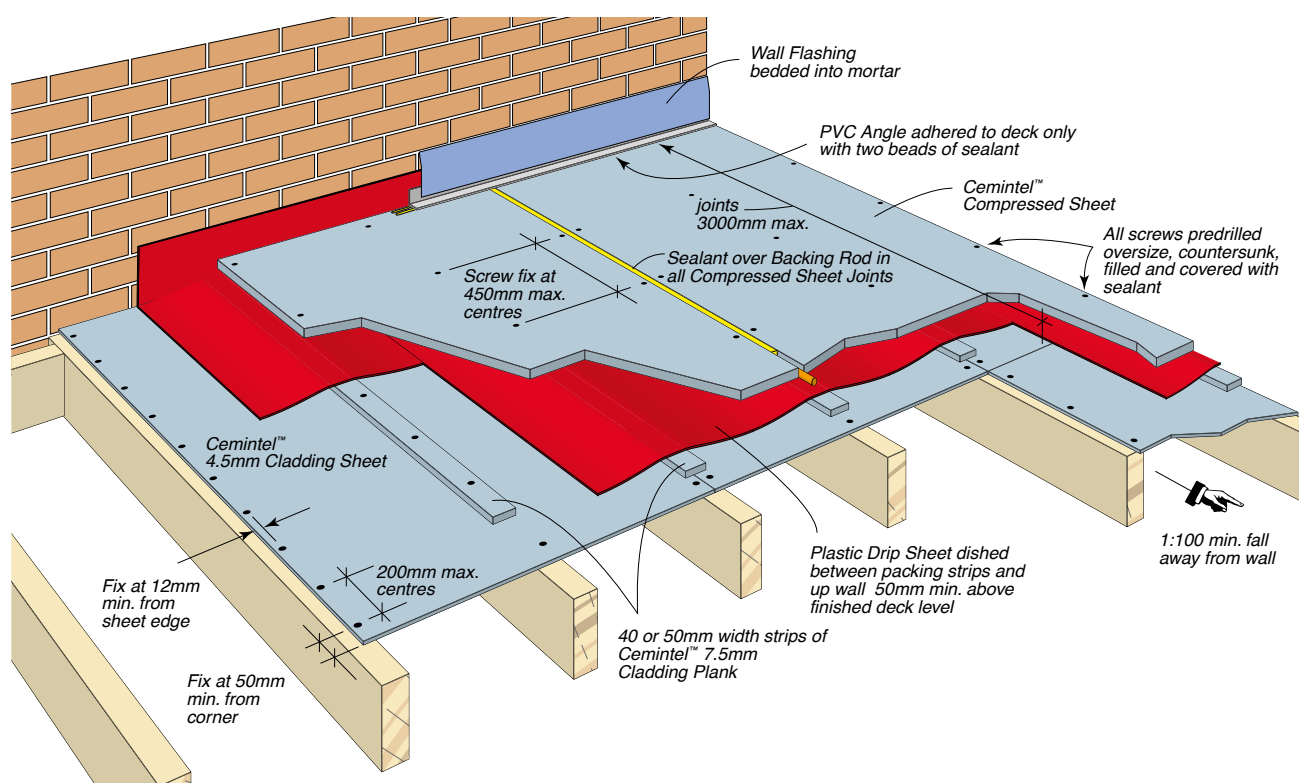
Compressed Sheets should be installed with the long edge parallel to the joists.

Sheets must be fixed to the frame leaving a 5mm minimum gap between each sheet. This gap is important to accommodate movement of the building materials and structure.

Prior to fixing, ensure that all joints will be supported by a framing member, and joist spacing allows for the 5mm joint gap.

Sheets are screw fixed at 450mm centres maximum along sheet edges and in the body of the sheet.

FIG 8: Construction of Drip Sheet System



Screws must be kept a minimum of 12mm from edge of sheet and 50mm from corners.

Screw heads must be countersunk below sheet surface. Screw holes must be pre-drilled using a CSR Counter Sinking Tool. Screw holes must be cleaned and filled with flexible sealant. Once screws are in place, cover screw heads with flexible sealant.

Handy Hint: To prevent sealant spillage, place a strip of adhesive tape over the screw hole prior to drilling, then remove once screw is in place and covered with sealant.

JOINTING

Sheets must be fixed in position ready for joints to be completed. Ensure joints are clean and clear of any dust that may prevent sealant adhering. Scrub sheet edges with a wet brush and allow to dry before applying sealant.

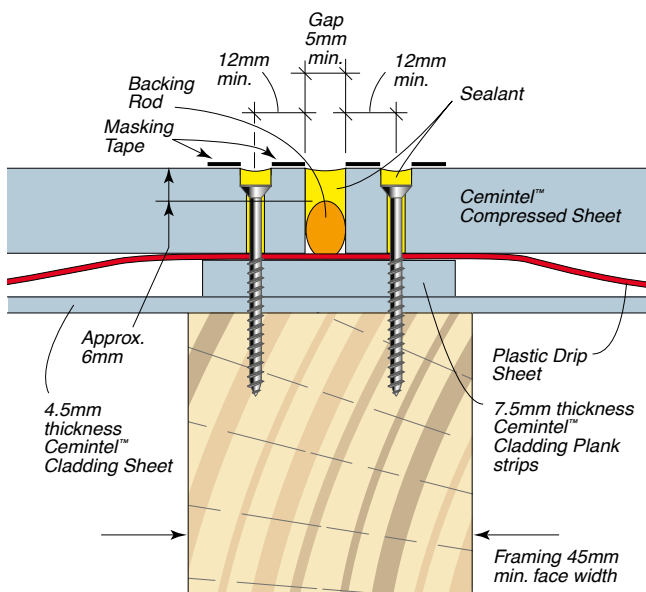
Joints must not be covered by tiles or other rigid finishes. All joints are constructed as movement joints which must be carried through the finish layer. Failure to comply will result in cracking and water leakage.

Place a strip of masking tape along both sides of the joint to ensure a neat finish is achieved.

Place foam backing rod into joint, pressing down firmly against packing strip, and leaving approximately 6mm gap at top.

Fill remainder of joint with flexible sealant, finishing just below the sheet surface.

FIG 9: Sheet Fixing and Jointing



Remove masking tape and allow sealant to dry for approximately 24 hours. Sealant joints must remain accessible for future maintenance.

Decks may be finished with artificial grass, outdoor carpet, pebble finishes, tiles or paint. The surface must not be left bare. It is critical that rigid finishes such as pebble finishes or tiles do not cover the sheet joints.

WALL/FLOOR JUNCTIONS

Flashing must be used at wall/floor junctions. PVC angle flashing 47 x 47mm is adhered to floor only to allow for frame movement.

Metal over-flashing such as Alcor™ or lead flashing is then installed from the wall. Tuck over-flashing up behind wall cladding or through brick work.

Ensure drip sheet upturn is not less than 50mm above finished deck surface (in high wind areas increase to 100mm).

EDGE FINISH

Sheet must not extend more than 100mm beyond framing/support. A drip line must be installed to the underside, near sheet edge, to prevent staining of the walls.

Fix a 12 x 12mm drip mould into place with sealant and self tapping screws at 300mm maximum centres. Alternatively, a 3 x 3mm groove may be cut into the underside of the sheet.

FIG 10: Movement Joint Through Rigid Surface Finish

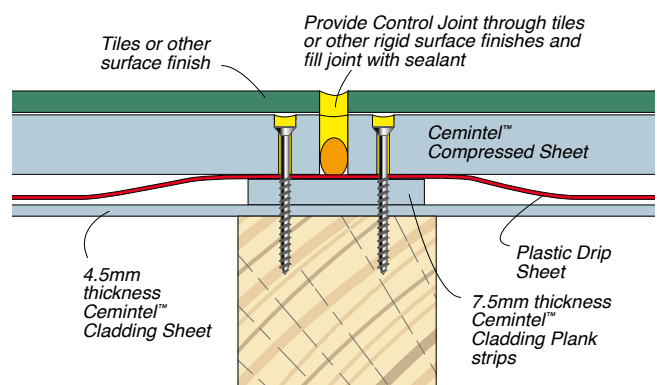


FIG 11: Wall/Floor Junction

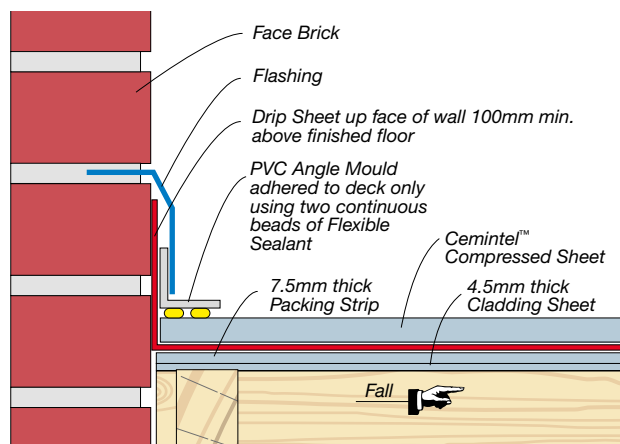


FIG 13: Edge Finish Details

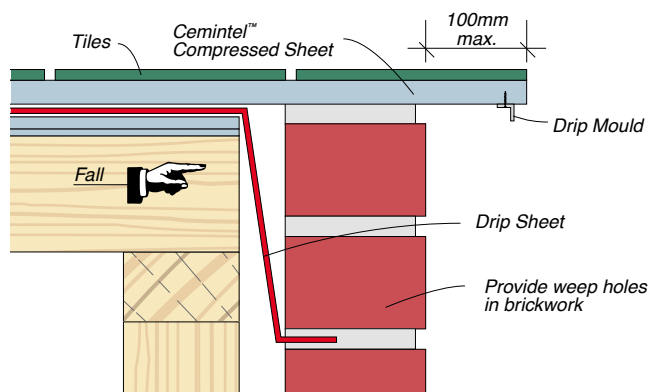
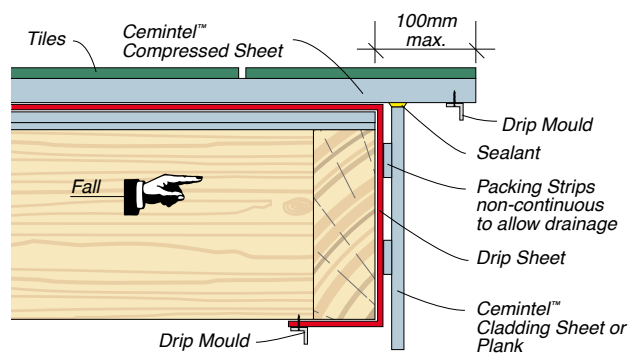


FIG 12: Edge Finish Detail



LIQUID MEMBRANE & TRAFFICABLE MEMBRANE SYSTEMS

These systems are treated together as they have similar sheet fixing and waterproofing details. With no mortar bed, these systems are of minimum thickness, which is an advantage where threshold step height is low, and are lightweight to reduce the load on floor joists.

INSTALLATION

FIXING AND JOINTING SHEETS

Cemintel™ Compressed Sheets are fixed directly to the floor joists. Sheets may be laid in either direction relative to the slope and a support member is required at all sheet edges. Leave 5mm between sheet edges and 5 to 10mm at wall junctions.

Screw fix to each joist at 450mm maximum centres. Screws must be a minimum 12mm from a sheet edge and 50mm from a corner.

Screw holes must be pre-drilled and countersunk 3mm below surface. Allow 1mm clearance over diameter of screw. Screw holes must be cleaned and filled with flexible sealant before screw is placed. Once screws are in place, cover screw heads with flexible sealant. This will ensure fasteners are watertight.

Handy Hint: To prevent sealant spillage, place a strip of adhesive tape over the screw hole prior to drilling and remove once screw is in place and covered with sealant.

JOINTING

Sheets must be fixed in position ready for joints to be completed. Ensure joints are clean and clear of any dust that may prevent sealant adhering. Place a strip of masking tape along both sides of the joint to ensure a neat finish is achieved. Press foam backing rod into joint, pressing down firmly against joist, leaving approximately 6mm gap at top. Fill remainder of joint with flexible sealant, finishing just below the sheet surface. Joints must be smoothed within 10 minutes. Remove masking tape and allow sealant to dry for approximately 24 hours.

MEMBRANE

A proprietary membrane system must be used. This should be installed by a specialist waterproofing contractor, and a waterproof guarantee provided.

FINISHES

Do not tile over control joints.

When selecting tiles ensure they are suitable for external use and an appropriate adhesive is selected. In all cases the tile and tile adhesive manufacturer's instructions should be followed.

For further advice, refer to Australian Standard AS3958.1 'Guide to the installation of ceramic tiles'.

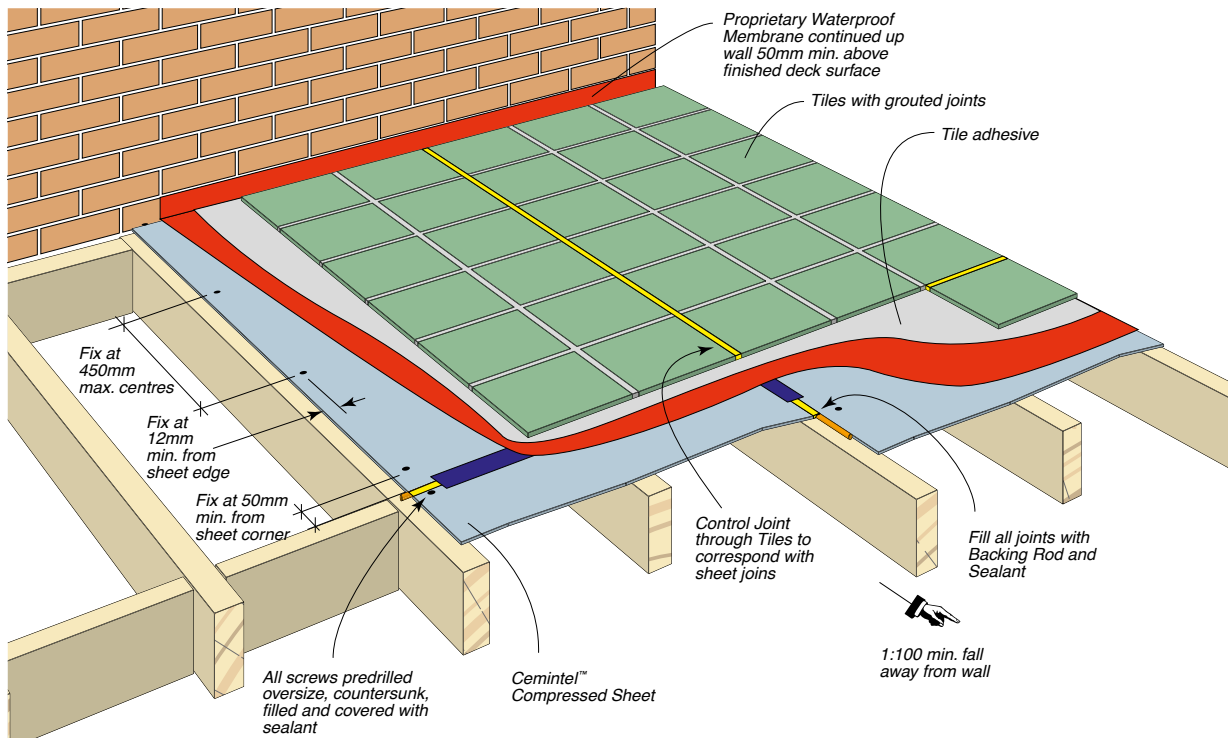
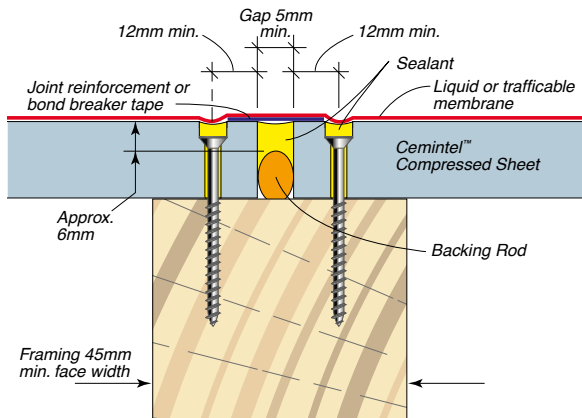
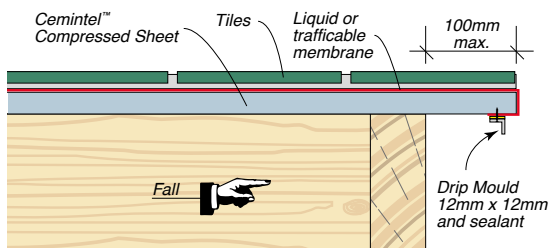
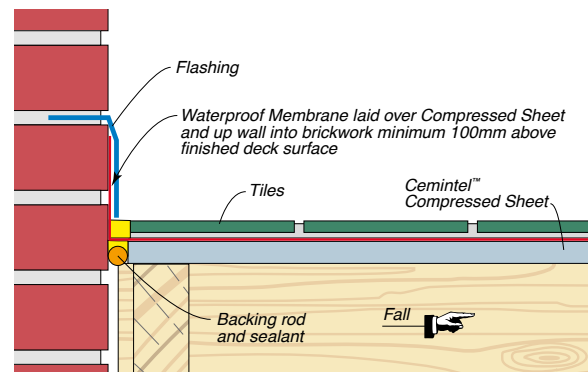
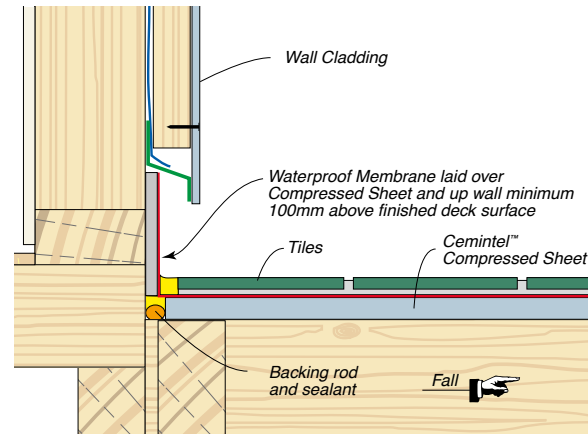
FIG 14: Construction Of Liquid Or Trafficable Membrane System**FIG 15: Sheet Joint Detail****FIG 16: Edge Finishing Detail****FIG 17: Wall/Floor Junction****FIG 18: Wall/Floor Junction**

FIG 19: Metal Post Support

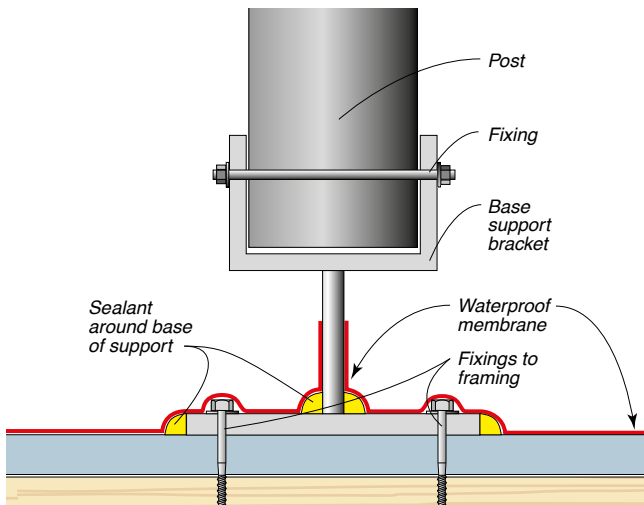


FIG 21: Metal Post Support

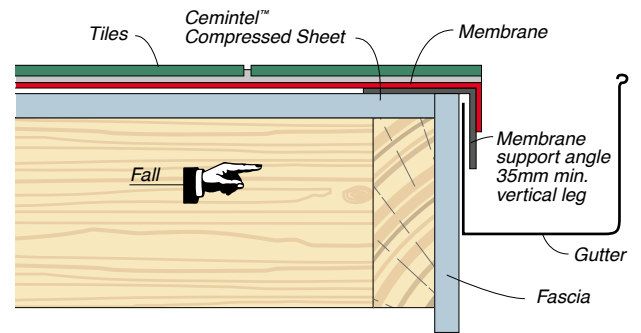
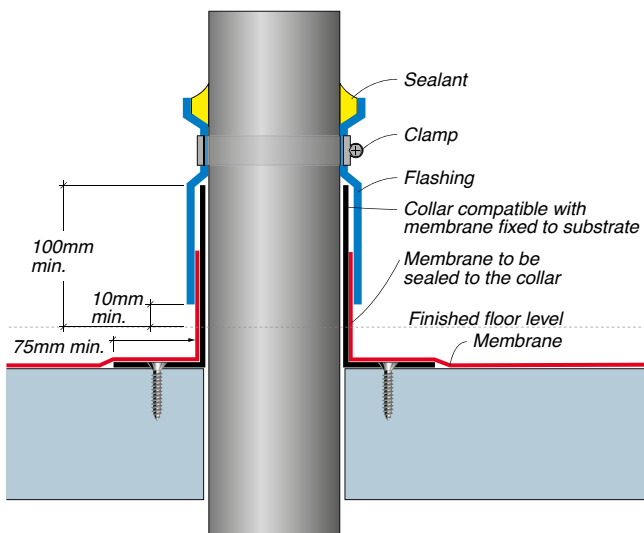


FIG 20: Pipe Penetration Detail



WATER RESISTANT SYSTEM

Decks that are not required to be completely waterproof should be constructed to minimise the penetration of water to avoid dry rot in timber framing.

Timber and structural specifications must comply with the relevant building authority requirements.

Timber should be treated exterior grade, or where untreated timber is used, the top of the joists must be flooded with a timber preservative available from paint suppliers.

In addition, flashing must be used to protect the timber framing. Flashing must extend 50mm down the sides of the joists and trimmers.

Alcor™ flashing or equivalent is recommended.

INSTALLATION

FIXING COMPRESSED SHEETS

Sheets may be fixed parallel to, or across joists. Prior to fixing, ensure that all joints will be fully supported by a framing member, and allow for 5mm joint gaps.

Sheets must be fixed to the frame leaving a 5mm minimum gap between each sheet. This gap is important to accommodate movement of the building materials and structure.

Sheets laid parallel to joists are screw fixed at 450mm centres maximum along sheet edges and in the body of the sheet. Screws must be a minimum of 12mm from edge of sheet and 50mm from corners.

Sheets laid across joists should be fixed with 3 screws per joist for 900mm sheets, and 4 screws per joist for 1200mm sheets.

Screw holes must be pre-drilled and head countersunk 3mm below surface. Allow 1mm clearance over diameter of screw. Screw holes must be cleaned and filled with flexible sealant before screw is placed. Once screws are in place, cover screw heads with flexible sealant. This will ensure fasteners are water tight.

Handy Hint: To prevent sealant spillage, place a strip of adhesive tape over the screw hole prior to drilling and remove once screw is in place and covered with sealant.

JOINTING

Sheets must be fixed in position ready for joints to be completed. Ensure joints are clean and clear of any dust that may prevent sealant adhering.

Place a strip of masking tape along both sides of the joint to ensure a neat finish is achieved.

Press foam backing rod into joint pressing down firmly against joist leaving approximately 6mm gap at top. Fill remainder of joint with flexible sealant, finishing just below the sheet surface. Joints must be smoothed within 10 minutes.

Remove masking tape and allow sealant to dry for approximately 24 hours.

WALL/FLOOR JUNCTION

Flashing must be used at wall/floor junctions. PVC flashing 47 x 47mm is adhered to compressed sheet deck only, to allow for frame movement.

Metal over-flashing such as Alcor™ or lead flashing is then installed from the wall. Tuck up behind wall cladding or into brick work.

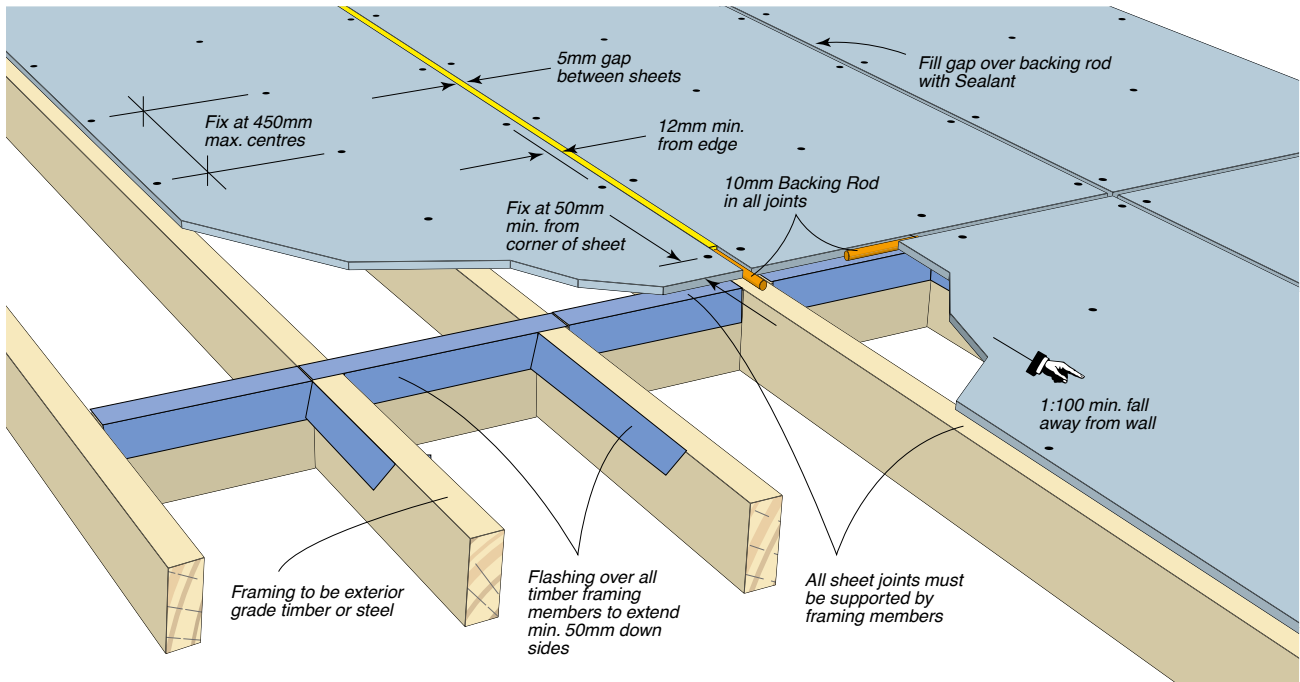
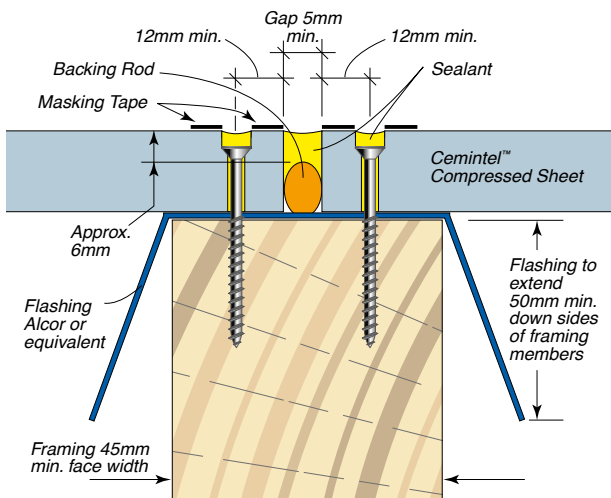
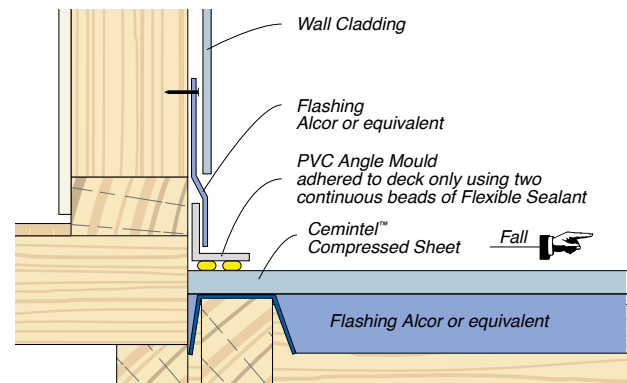
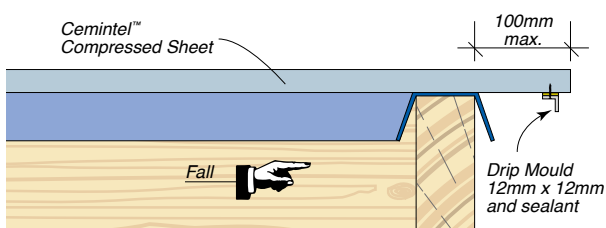
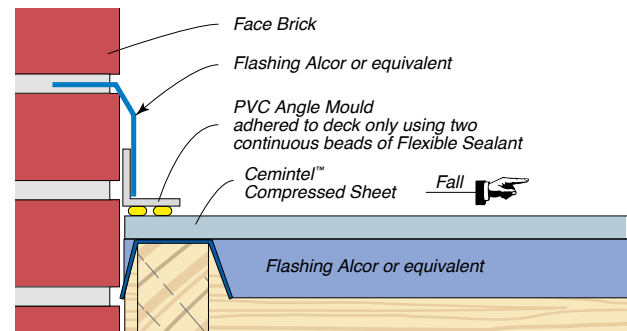
FINISHES

Decks may be finished with artificial grass, outdoor carpet, pebble finishes, tiles or paint. Decks must not be left bare.

It is critical that rigid finishes such as pebble or tiles do not cover the sheet joints.

Cantilevered sheet ends must not extend more than

100mm beyond framing/support. A 12 x 12mm angle drip mould should be installed to underside near sheet edge to prevent staining of the walls. Fix into place with self tapping screws at 300mm centres.

FIG 22: Construction of Deck Using Water Resistant System**FIG 23: Sheet Fixing and Joint Sealing****FIG 25: Wall/Floor Junction Timber****FIG 24: Edge Finish****FIG 26: Wall/Floor Junction Masonry**

MATERIAL PROPERTIES

Cemintel™ Compressed Sheet conforms to the requirements of AS2908.2: 1992 'Cellulose-cement products Part 2: Flat sheets'.

MANUFACTURING TOLERANCES

Mass (nominal) 15mm thickness	28kg/m ²
Mass (nominal) 18mm thickness	34kg/m ²
Length	+0 to -3mm
Width	+0 to -3mm
Thickness	+10% to - 0%
Diagonals Difference (max)	3mm
Edge Straightness deviation (max)	1.5mm

PHYSICAL PROPERTIES

Property	Cemintel™ Compressed Sheet	
	at EMC*	Saturated
Density (kg/m3)	1700	1900
Flexural Strength (Characteristic)		
Parallel to sheet length		
– Ultimate (MPa)	25	20
– Yield (MPa)	20	13
Parallel to sheet width		
– Ultimate (MPa)		
– Yield (MPa)	20	16
– Yield (MPa)	17	12
Modulus of Elasticity (GPa)	10	9
Thermal Expansion Coefficient	10 x 10-6/K° (est. Average)	
Moisture Movement		
– from EMC* to saturated	≈ 700 Microstrains (expansion)	
– from 30 to 90% RH (to ASTM C1185)	≈ 500 Microstrains (expansion)	
Note: * EMC (Equilibrium Moisture Content) is at nominally 23°C and 50% Relative Humidity environment conditions.		

FIRE RESISTANCE

In accordance with the Building Code of Australia, Part 3.7.1.2, Cemintel™ fibre cement sheets can be used wherever non-combustible material is required by the code.

Early Fire Hazard Indices for Compressed Sheet & Cladding Sheet are:

Ignitability	0
Spread of Flame	0
Heat Evolved	0
Smoke Developed	0
Group Number	1
Average Specific Extinction Area	<250m ² /kg

HANDLING & STORAGE

All Cemintel™ Fibre Cement sheets must be stacked flat, clear of the ground, and supported on a level platform.

Care must be taken to avoid damage to edges, ends and surfaces.

Where it is necessary to store sheets outside, they must be protected from the weather.

Sheets must be dry prior to fixing, jointing and finishing.

SHEET PREPARATION & SAFETY

CUTTING

Cemintel™ Fibre Cement sheets may be cut on-site with a power saw. CSR recommends using the Hitachi Fibre Cement Power Saw Blade. This blade is specifically designed for use with fibre cement, and produces a superior cut compared to conventional blades.

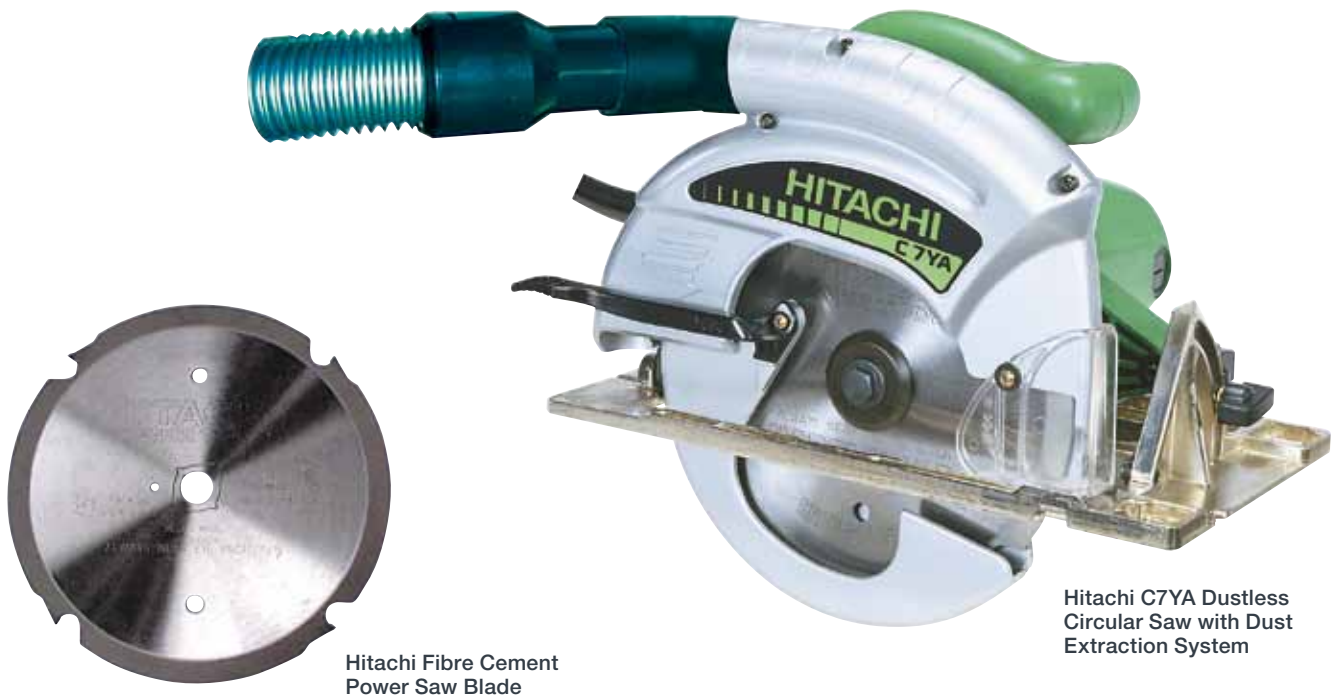
It is ideal for use with the Hitachi C7YA dustless circular saw and other 185mm circular saws fitted with vacuum extraction systems.

Tungsten carbide and diamond blades are also suitable when recommended by their manufacture.

Product	Order N°
Hitachi C7YA Dustless Circular Saw	10836
Hitachi Dust Extractor	10833
Hitachi Fibre Cement Power Saw Blade	10837

SAFETY

When cutting or grinding fibre cement sheets using power tools, always ensure the work area is well ventilated. An approved dust mask (AS1715 and AS1716) and safety glasses (AS1337) must be worn. CSR recommends that hearing protection be worn where appropriate.



Hitachi Fibre Cement
Power Saw Blade

Hitachi C7YA Dustless
Circular Saw with Dust
Extraction System

DECKING SYSTEMS



FC:125

HEALTH & SAFETY

WARNING

Fibre Cement products contain crystalline silica. Repeated inhalation of fibre cement dust may cause lung scarring (silicosis) or cancer. Do not breathe the dust. When cutting sheets, use the methods recommended in this brochure to minimise dust generation. If power tools are used, wear an approved dust mask (respirator). These precautions are not necessary when stacking, unloading or handling fibre cement products.

For further information and for a Material Safety Data Sheet, phone 1800 678 068.

MANUFACTURED FOR LIFE

CSR Building Products Limited ("CSR") warrants its Cemintel™ Compressed Sheet ("Product") to remain free of defects in material and manufacture for the usual lifetime of the Product (up to 25 years).

In the event of any failure of the Product caused by the direct result of a defect in the material or manufacture of the Product, CSR will at its option replace or repair, supply an equivalent product, or pay for doing one of these.

This warranty does not apply where the Product has been used in any manner not in accordance with the manufacturer's instructions, nor the reuse of the Product after its initial installation. This includes installation and maintenance in accordance with this technical manual. CSR recommends that only those products, components and systems recommended by it be used and the project must be designed and constructed in strict compliance with all relevant provisions of the current Building Code of Australia, regulations and standards. All other products, including coating systems, applied to or used in conjunction with the Product must be applied or installed and maintained in accordance with the relevant manufacturer's instructions and good trade practice. CSR will need to be satisfied that any defect in its Product is attributable to material or manufacture defect (and not another cause) before this warranty applies.

Notification of a warranty claim must be made to CSR prior to any return or attempted repair of the Product. Failure to allow CSR to examine an alleged faulty Product in situ may result in the voiding of this warranty.

CSR will not be liable for any claims, defects or damages arising from or in any way attributable to poor design or detailing, poor workmanship, movement of materials to which the Product is attached and/or, incorrect design of the structure settlement or structural movement, high levels of pollution, acts of God including, but not limited to, floods, cyclones, earthquakes or other severe weather or unusual climatic conditions, performance of paint/coatings applied to the Product or normal wear and tear.

Other than as expressly set out in this warranty, and the guarantees that can not be excluded under The Australian Consumer Law (Schedule 2 of the Competition and Consumer Act 2010 (Cth)) (and any other law), CSR excludes all other warranties and guarantees with regard to the Product including all guarantees and warranties that may apply at law.

To the extent that it is able to do so, CSR excludes all liability for loss and damage (including consequential loss) in connection with the Product. This exclusion does not apply where the Product is sold to a consumer and is a good of a kind ordinarily acquired for personal, domestic or household use or consumption.

The following statement is provided where the Product is supplied to a buyer who is a "consumer" under the Australian Consumer Law: Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. The benefits of this warranty are in addition to other rights or remedies of the consumer under law in relation to the goods or services to which the warranty relates.

Notification of a warranty claim must be made to CSR prior to any return of the Product.

To make a claim under this warranty, you must contact CSR on **1300 CEMINTEL**, or write to one of our state offices, www.cemintel.com.au/contact-us. All expense of claiming the warranty will be borne by the person making the claim. CSR may require documentation supporting the claim to be provided.

CONTACT DETAILS

AUGUST 2012

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