

HOSPITAL PROJECTS

BUILDING SOLUTIONS FOR MODERN HEALTHCARE FACILITIES



CSR

BRINGING TOGETHER THE BEST SOLUTIONS FOR HOSPITAL PROJECTS

CSR brings together Australia's leading portfolio of building products brands. They are among the most trusted and recognised businesses in providing products and services to support our customers across residential and non-residential construction.

Each of our brands is different, yet they share the company's vision and values with the common goal being the provision of reliable and trusted products and services. For our customers, this means that we continuously strive to provide certainty of quality, delivery and integrity in everything that we do.

CSR continues to grow through product and service enhancement and development of new products, brands and services so our customers can continue to rely on CSR's renowned quality.

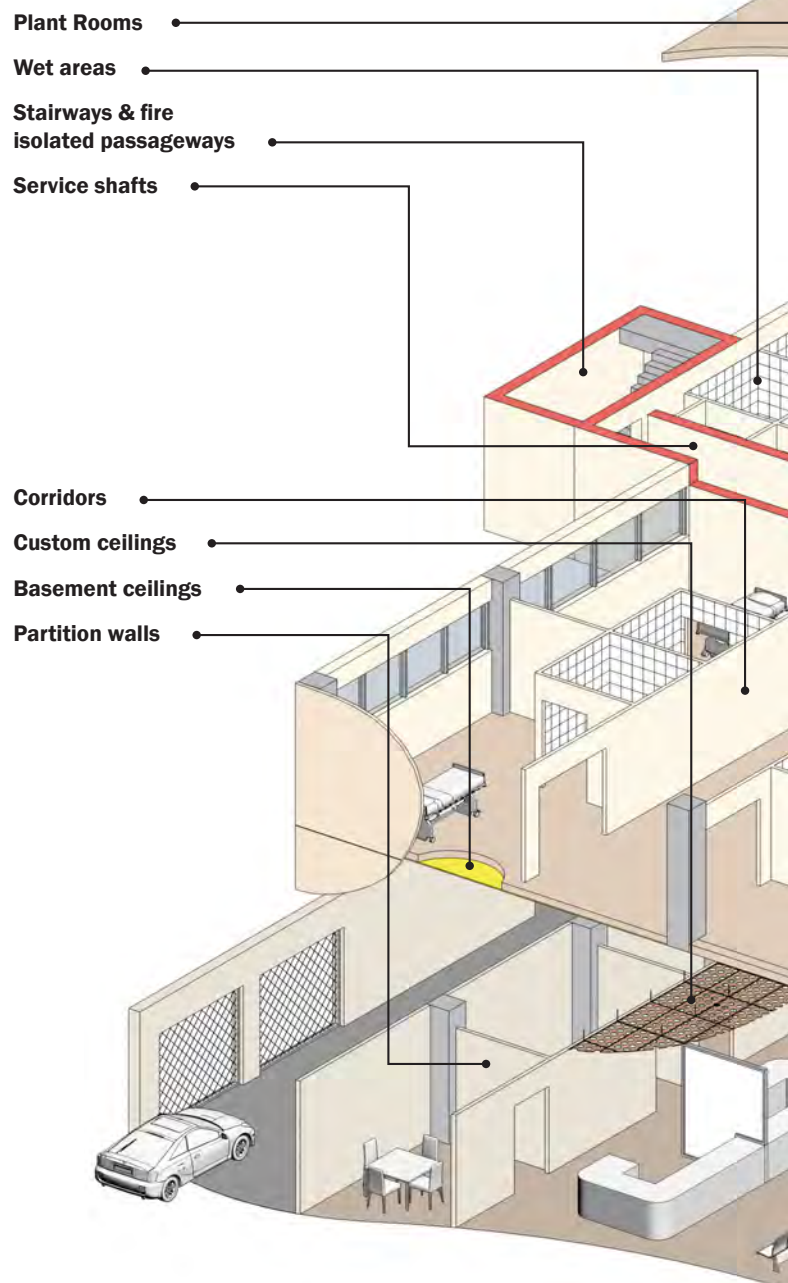
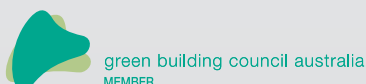
Adding Value

CSR's objective is to add value in 4 key areas:

- Reduce building weight - substituting heavyweight masonry with lightweight systems
- More efficient compliance through the development of tested integrated systems to meet a wide range of requirements including:
 - Thermal
 - Fire
 - Acoustics
 - Environmental and Green Star Ratings
- Streamline construction programming using accredited installers for many CSR systems
- Reduce project risk through proven & supported systems - CSR stands for "Certainty Built In".

Sustainability

CSR is committed to sustainability. From our range of energy saving products and systems to our passion for reducing energy and waste in manufacturing, our commitment to sustainability in the built environment is inherent in everything we do.



GYPROCK™
Everything else is just plasterboard

Bradford™
for smarter environments

hebel
The better way to build

MONIER™
Living in style.

alutri™
panels

FRICKER
CEILING SYSTEMS

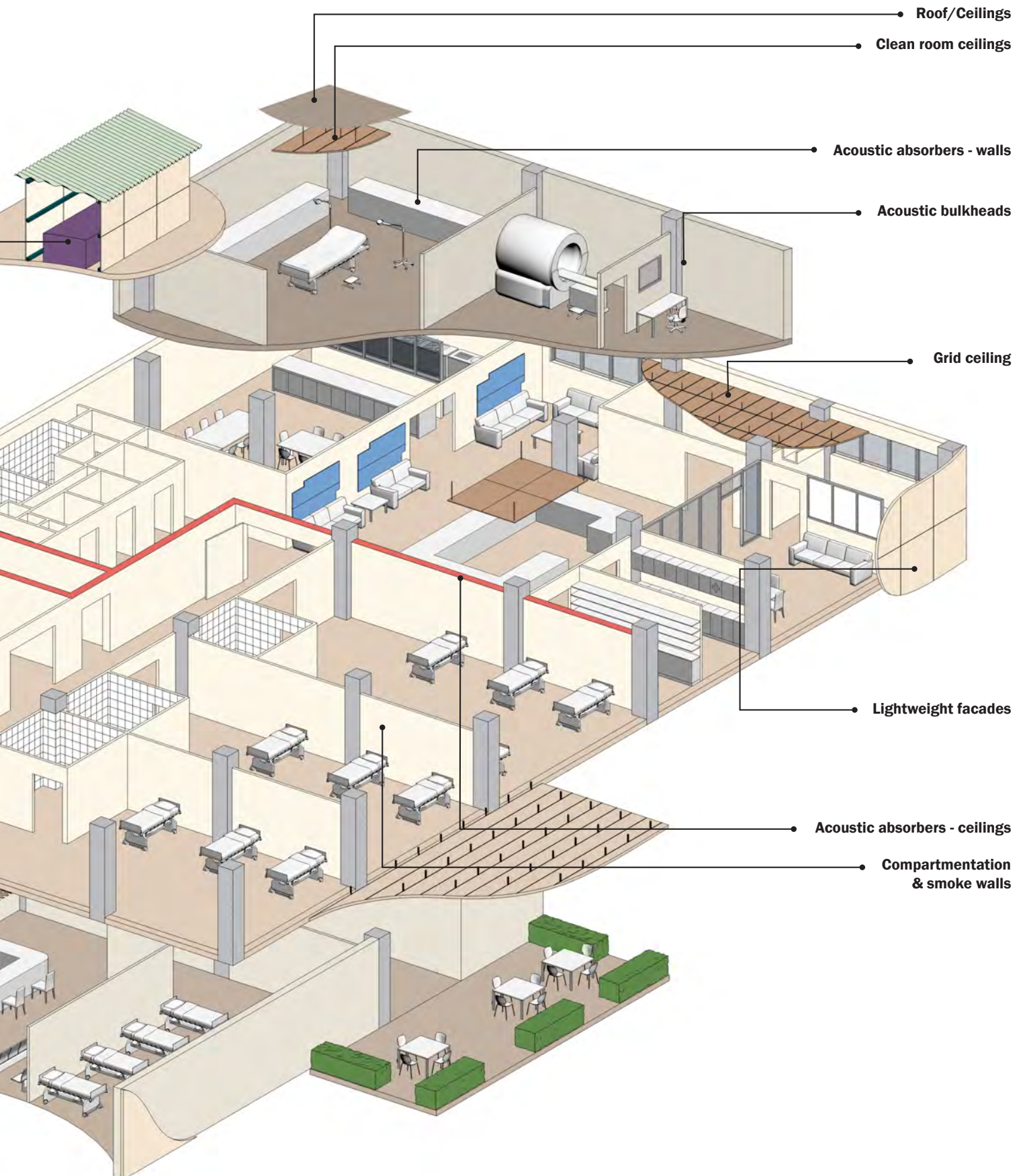
Viridian
New World Glass

PGH BRICKS & PAVERS

EDMONDS
Technologies for a Sustainable Future

WUNDERLICH™
The lasting beauty of terracotta

cemintel
fibre cement systems










DESIGN SOLUTIONS



CSR Building Materials offers a wide range of masonry and lightweight systems to meet a variety of hospital design challenges. These systems combine products from across our portfolio to provide a tested and proven system backed by CSR's unparalleled technical support.

External Facades

CSR has a wide range of high performance masonry and lightweight façade solutions combining aesthetics with thermal and fire performance.

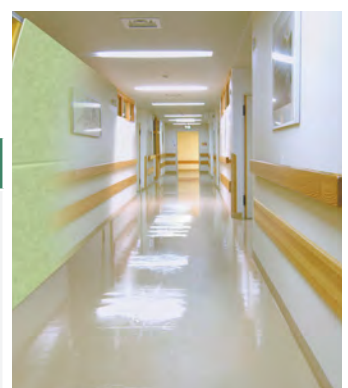
BRAND	PRODUCT	FEATURES
	Pressure Equalised Façade	A lightweight panel system offering ease of installation and thermal performance to meet Section J.
	Accent Decorative Panels	Individually routed decorative panels provide complete design freedom.
	Face Bricks including Alchemy	Our exciting ranges of faced bricks combine exceptional beauty with excellent acoustic, thermal and fire properties, while minimising the cost of future maintenance.
	CeminSeal BareStone™ and Expresswall™	CeminSeal BareStone™ is a pre finished panel offering a raw cement look. It utilises the ExpressWall™ framing system, offering the latest in façade design with fast, simple installation.
	ThermoTech™ & PermaTech™	Sealed insulating glass units offering superior insulation and improved solar control with the addition of low E glass, helping to reduce condensation and heating and cooling costs.
	Bradford Insulation	A full range of insulation products to ensure façade systems meet Section J Energy Efficiency requirements.
	Composite Cladding	A 4mm thick composite cladding available in a range of colours and finishes



Corridors






High traffic areas are subject to damage which can impact on maintenance. Installing impact or scuff resistant wall linings will help to reduce maintenance costs.

BRAND	PRODUCT	FEATURES
	Impactchek & EC08 Impact	High strength plasterboard designed for medium duty traffic areas. It is composed of a glass fibre reinforced gypsum core plus a fibreglass mesh bonded to the inside of the back face. EC08 features a higher recycled content and can contribute to additional Green Star points.



Acoustic Partitions




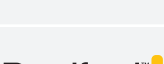
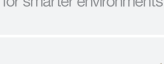
While the BCA does not make specific provisions for the sound insulation of hospitals, consideration should be given to the potential for noise transfer to disturb patients and staff.

BRAND	PRODUCT/SOLUTION	FEATURES
	Face & Common Bricks	The excellent acoustic characteristics of bricks provide privacy and strength in partition applications.
	Soundchek™	A high density plasterboard for superior sound attenuation.
	Partition Wall Batts	High density glasswool insulation to provide enhanced acoustic performance in lightweight partition wall systems.
	Vlam Hush™	A laminated safety glass with a specially developed interlayer to reduce noise.
	Acoustic Wall Systems	Solid masonry panel-lined wall systems designed for high acoustic performance.



Stairway and Fire Isolated Passages

Stairways and fire isolated passages require a degree of resistance to damage and therefore impact and wear-resistant wall systems should be considered. Fire resistance may also be required in some applications.

BRAND	PRODUCT/SOLUTION	FEATURES
	Impactchek™	High strength plasterboard resistant to soft body impact. Fire rated systems available.
	Ceminseal™ Wallboard	Superior impact resistance for medium to high traffic areas.
	Face Bricks	Excellent structural and fire properties for load bearing, fire rated walls.
	FireSeal™	Fire resistant rockwool insulation for use in wall penetrations and between floors in multi level buildings.
	Powerpanel	Fire rated masonry panels with superior thermal and acoustic performance.






Floors

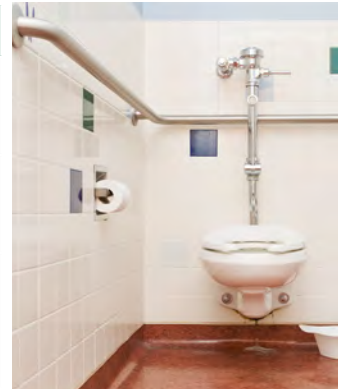
The BCA includes thermal performance requirements for suspended floors below conditioned spaces.

BRAND	PRODUCT/SOLUTION	FEATURES
	PowerFloor™	Lightweight masonry floor panels with excellent thermal, acoustic and fire resistance characteristics. Also ideal if adding floors over an existing structure.
	Under slab insulation	Glasswool blanket insulation with a range of acoustic and aesthetic facings for use in exposed under slab applications.

Wet Areas

Wet area walls within hospitals must be designed to avoid system failures or increased maintenance costs associated with normal operations, the cleaning regimen and leakage.

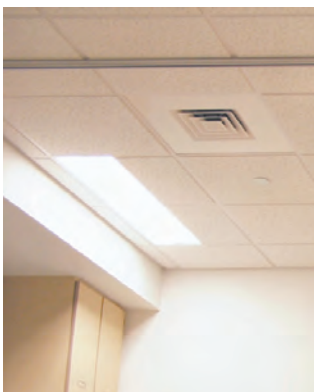
BRAND	PRODUCT/SOLUTION	FEATURES
	CeminSeal™ Wallboard	Embedded micro waterblock technology prevents water penetration providing a more stable sheet in wet areas.
	Seraphic™	A range of ceramic screen printed safety glass ideal for wet areas. Available in a range of colours.
	DecorMirror™ Safe	Offering high light reflection, DecorMirror™ Safe has the added benefit of being a safety mirror with high corrosion resistance.



Compartmentation and Smoke Walls





Hospitals are required to be divided into fire compartments in accordance with BCA Clause C2. Smoke walls may also be required depending on ward areas.

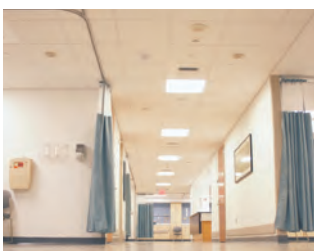
BRAND	PRODUCT/SOLUTION	FEATURES
	Fyrchek™	Fire resistant glass fibre reinforced board specifically developed for fire rated wall systems.
	Bricks	PGH™ bricks offer excellent fire resistance for load bearing walls.
	FireSeal™	Fire resistant rockwool insulation for wall penetrations



Ceilings








CSR offers a wide range of ceiling systems, including a number of products specifically developed for use in healthcare environments.

BRAND	PRODUCT/SOLUTION	FEATURES
	USG Mars Health ClimaPlus	Smooth textured acoustical panels with a standard clay back coating that minimises particle release and are easily washed.
	Ecophon Hygiene Performance	A 'clean room' classification, high acoustic tile, suitable for frequent cleaning.
	OWA Sanitas	Treated mineral fibre tiles tested against bacteria, moulds & yeasts capable of damp cloth cleaning.
	Ceiling Overlays	Glasswool ceiling insulation designed to provide both thermal and acoustic insulation above lay in ceiling tiles.








Services, Service Shafts and Plant Rooms

There are BCA requirements for thermal performance of HVAC and service piping. Fire requirements also exist for plant rooms with certain emergency equipment adjoining other areas, and for service risers.

BRAND	PRODUCT/SOLUTION	FEATURES
	ShaftWall	Designed predominantly for installation from one side only, Shaftwall Systems comprise 25mm thick Gyprock™ Shaft Liner Panels and 16mm Gyprock Fyrchek™ supported by a frame of galvanised steel tracks and C-H studs.
	PowerPanel	Simple to install masonry panel wall system to provide up to 4 hour FRL.
	ExpressWall™	Cemintel Express panel cladding on top hat framing system for ease of installation - ideal for roof top plant and lift motor rooms.
	EnviroDuct	Internal and external HVAC insulation for superior thermal performance with a range of specialty facings to meet acoustic and hygiene requirements.
	Sectional Pipe Insulation (SPI)	Moulded rockwool and glasswool insulation to improve energy efficiency and provide personnel protection for high and low temperature pipework.
	Hurricane and EcoPower	A full range of ventilation products designed to provide maximum control over air quality and temperature.
	Bricks	PGH™ Bricks offer excellent fire resistance for load bearing walls

Roofs

Roof systems are major contributors to the overall thermal performance of buildings including hospitals.

BRAND	PRODUCT/SOLUTION	FEATURES
	Concrete Tiles	Mass provides excellent thermal and acoustic performance. Monier offers a wide range of colours and profiles to enhance the building design. Combined with Bradford sarking the insulation of weather proofing performance of the roof is enhanced.
	Anticon™ Roofing Blanket	Combined insulation and condensation barrier for metal roofs. Also provides excellent dampening of rain noise.
	Roof Spacer Systems	Roof spacers systems to ensure insulation recovery to design thickness in accordance with Section J requirements. Suitable for use in cyclone areas.
	Hurricane	High capacity unpowered roof ventilation.
	EcoPower	Powered vent with optional electronic control by a range of possible inputs such as humidity, temperature, gas concentrations.



CSR DESIGNLINK™

CSR designLINK™ has been established to help architects, engineers and other design professionals select the right products and systems for their projects as well as provide customised design solutions on request.

Features & benefits offered by designLINK™

- On-line System Selector™ - Enables searches for CSR solutions to meet specific fire, thermal, acoustic and footprint requirements.

System Selector™ also searches by wet area, load-bearing and internal and external applications.

- Project case studies - Successful project case studies incorporating CSR Building Products are searchable by product, location and building type.
- Estimating and design tools.
- Test reports, specification templates and technical glossary.

Register on-line at designlink.com.au to receive updates on new products and systems or contact CSR designLINK™ Technical Support:

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CSR Guarantee

CSR Building Products guarantees its products to be free of defects in materials and manufacture.

If a CSR product does not meet our standard, we will, at our option, replace or repair it, supply an equivalent product, or pay for doing one of these.

CSR recommends that only products, components and systems recommended by it be used. If this is not done, CSR will need to be satisfied that any defect in its product is attributable to our failure to meet our standard (and not another cause) before this guarantee applies.

This guarantee excludes all other guarantees and liability for damage or loss in connection with defects in CSR's products, other than those imposed by legislation.

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