



## Applications & Innovations

April 2019

### In this edition...

#### Applications

- [Protecting the coastline with precast](#)
- [CBC transformed by GRC](#)
- [Precast labyrinth compliments serenity of surrounding landscape](#)
- [Zigzag precast panels react to sun's movement](#)
- [Precast mimics masonry and limestone in Detroit](#)
- [1960's pattern used for Chicago community centre](#)
- [Precast beams used to re-build railway pedestrian bridge](#)
- [World first floating tunnel proposed for Norway](#)

#### Innovations

- [The future is RFID](#)
- [Optic fibres of translucent concrete](#)
- [3D printed precast moulds](#)
- [Used tyres helping to increase concrete's fire resistance](#)

---

## Applications

### Protecting the coastline with precast

Precast L walls manufactured by Rocla are an integral component of a rock wall system being installed at Adelaide's West Beach to protect surrounding assets from erosion. [Read more and view the live webcam.](#)

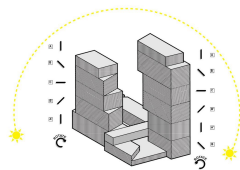
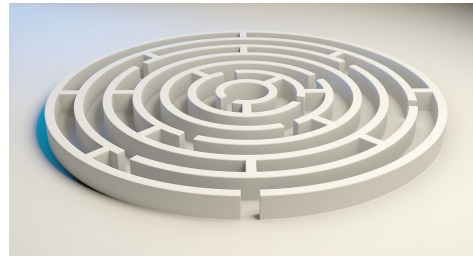


### CBC transformed by GRC

Crystallised geometry has inspired the design of GRC manufactured by Asurco Contracting, to transform Adelaide's Christian Brothers College with its new Centre of Innovation and Learning. [Read more and view the live webcam.](#)

### Precast labyrinth compliments serenity of surrounding landscape

A Kentucky farm has built a maze in precast amidst its private garden to offer a quiet place for meditation. [Read more.](#)

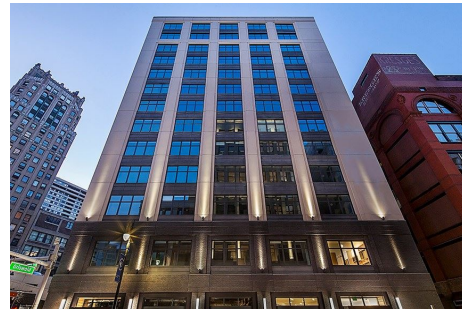


### Zigzag precast panels react to sun's movement

Zigzagging towers on New York's waterfront will be clad in angular precast concrete panels for the Office of Metropolitan Architecture. [Read more.](#)

### Precast mimics masonry and limestone in Detroit

As seen in many Australian buildings, this Detroit apartment building uses precast to replicate the aesthetics of the original materials used on surrounding buildings. [Read more.](#)



### 1960's pattern used for Chicago community centre

Architect Paul Preissner has won awards for the design of the Ring of Hope community centre in Chicago, with load bearing precast concrete used for the exterior of the building. [Read more.](#)

### Precast beams used to re-build railway pedestrian bridge

Forming the new structure of a pedestrian bridge in Blackpool (UK) on the Preston to Blackpool railway line, precast concrete has enabled a swift construction programme. [Read more.](#)



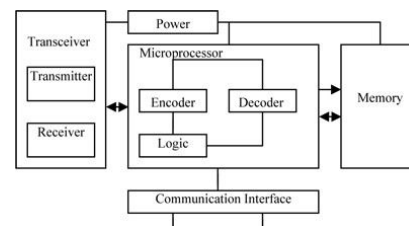
### World first floating tunnel proposed for Norway

A precast concrete 'floating tunnel' has been proposed to help improve traffic flow along Norway's West Coast. [Read more.](#)

## Innovations

### The future is in RFID

The use of RFID in precast is on its way with some US manufacturers already using the technology. [Read more.](#) And here's why you might want to consider it.



### Optic fibres for translucent concrete

While translucent concrete isn't see through, its optical fibres transmit light to give privacy while reducing the need for lighting. [Read more.](#)

### 3D printed precast moulds

The precast façade of a 42-storey tower in New York City has been created using 3D printed moulds. Up to 200 concrete parts were able to be cast in one mould, making the project highly efficient. [Read more.](#)



### Used tyres helping to increase concrete's fire resistance

Recycled tyres are improving concrete's fire resistance, according to a research team at the UK's University of Sheffield. [Read more.](#)



## BUILDING A SUSTAINABLE AUSTRALIA

[www.nationalprecast.com.au](http://www.nationalprecast.com.au)  
Suite 2, 13 Brighton Road,  
Glenelg SA 5045  
P: (08) 8294 0833



**NATIONAL PRECAST**  
CONCRETE ASSOCIATION AUSTRALIA

Copyright © 2017 National Precast Concrete Association Australia. All rights reserved.

[Facebook](#) • [LinkedIn](#)

Copyright © 2015 National Precast Concrete Association Australia. All rights reserved.

[Unsubscribe](#)