



COLLABORATION FOR CHANGE

# Case Study: EFC Structural Slab

Embodied CO2e reduction  
(tCO2e)

77.5

## CATEGORY

PRODUCT	SYSTEM	PROJECT	CONCEPT
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## SUPPLY CHAIN

MANUFACTURING	PROCESSING	TRANSPORTATION	CONSTRUCTION
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## REGION

WA	NT	SA	QLD
NSW	ACT	VIC	TAS

## Profile

Organisation: Wagners

Website:

<https://www.wagner.com.au/main/what-we-do/earth-friendly-concrete/efc-home/>

About: Wagners EFC is the world's leading zero-cement concrete producer.

# EARTH FRIENDLY CONCRETE

by **WAGNERS**

## Section 1: Opportunity

Our client (Hutchies) required a structural concrete for a large slab. They wanted to maintain normal supply and placement methods to meet project budget and timelines. They were also interested to try out low carbon innovation where possible and viable.

## Section 2: Solution

Earth Friendly Concrete by Wagners was a perfect solution. We delivered 310m3 in a continuous pour from a normal batch plant in normal trucks. It was placed normally and exceeded specified strength and curing requirements compared to ordinary concrete.



### Section 3: Lessons

Hutchies Site Manager Russell Gillam said, "It is strong, it is durable, it is good for the environment and it can be used to build structures. The slab is in, it's structural and it has achieved its purpose. It's coming up a lot stronger and denser than ordinary concrete".

### Section 4 : Impact measurement

Wagners EFC has a Carbon Footprint Declaration that was independently prepared by the Footprint Co.

1m<sup>3</sup> of Earth Friendly Concrete contains only 120kg of CO<sub>2</sub>, ~70% less than an typical cement based concrete mix.

We eliminated 77.5t of CO<sub>2</sub> in this project, without any offsets.

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