

SHELLSHOCKED

RESURRECTING AN OBSOLETE CONSTRUCTION MATERIAL TO COMBAT OUR INSATIABLE APPETITE

The high demand of oysters has led to an ironic existence: this saltwater mollusc praised for its ability to filter 200L of water a day has become the pollutant itself with an estimated 10 million tonnes of shell waste discarded a year, most of which ends up in landfills. Historically, shells have played a significant role in construction, but with oyster consumption at an all-time high their use in the construction industry has almost vanished. Emerging organisations are working hard to divert shells from landfill, but this submission explores the return of a centuries-old alternative offering affordable, sustainable and low embodied-energy materials to Australia's construction industry amid rising waste from our ever-increasing appetite. Instead of a single material, this proposal explores the use of oyster shells across the breadth of the construction industry and offer a specification system to ensure high quality solutions can be achieved.

Point Lonsdale Oyster Pavilion aims to divert shells from landfill by raising of awareness for shell waste and through the architecture itself. The pavilion, inspired by the form of the Point Lonsdale seawalls, uses oyster shell in every aspect of its materiality using a grading system. Alongside BBQ, fish cleaning and picnic facilities, the pavilion offers a shell recycling drop off in collaboration with *Shuck, Don't Chuck* and aims to collect shells at the end of their lifecycle to be used in pavilions around Geelong and the Bellarine without increasing their embodied energy further.

CATEGORY 01: SPECIES											CATEGORY 02: SHELL		CATEGORY 03: COLOUR		CATEGORY 04: SIZE	
	TAS	VIC	SA	ACT	NSW	QLD	WA	NT			DESCRIPTION		COLOURING		DESCRIPTION	
PACIFIC										LSE	Cupped shell, exterior face up	C1	Majority cream, minimal to no purple	SF	0.5-1.0cm fragments	
Magallana Gigas										Left shell exterior	exterior face up	S1	Majority cream, purple stripes	Superfine shell		
SYDNEY ROCK										RSE	Flat shell, exterior face up	S2	Striped, even purple & cream	F	1.0-2.0cm fragments	
Saccostrea Glomerata										Right shell exterior	exterior face up	S3	Majority purple, cream stripes	Fine shell		
ANGASI										LSI	Cupped shell, interior face up	S4	Majority purple, cream pin stripes	C	2.0-4.0cm fragments	
Ostrea Angasi										Left shell interior	interior face up	B1	Blotched, majority cream	Coarse shell		
HOODED										RSI	Flat shell, interior face up	B2	Blotched, even distribution	SC	4.0cm+ fragments	
Saccostrea Cucullate										Right shell interior	interior face up	B3	Blotched, majority purple	Super coarse shell		
SOUTH SEA PEARL										LSX	Cupped shell, Mix face up	P1	Majority purple, minimal to no cream	W	Whole shell unbroken	
Pinctada Maxima										Left shell	Mix face up	G1	Any green colouring	Whole shell		
AKOYA PEARL										RSX	Flat shell, Mix face up	T1	Tan			
Pinctada Fucata										Right shell	Mix face up	L1	Black, high presence of white dots			
BLACK LIP PEARL												L2	Black, low presence white dots			
Pinctada Margaritifera												L3	Black, minimum to no dots			

SPECIFYING SHELLS:

A GRADING SYSTEM

