

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

