

Team CalWave

#### Material List

Material	Surface Area [m <sup>2</sup> ]	Density [kg/m <sup>3</sup> ]
Steel	1,559	7,850
Fiberglass	800	1,550

#### Representative Structural Thickness

Material	Low [cm]	Operational [cm]	High [cm]
Steel	3.45	3.83	4.28
Fiberglass	1.65	1.78	1.90
-			

#### Manufactured Material Cost

Material	Low [USD/Tonne]	Typical [USD/Tonne]	High [USD/Tonne]
Steel	\$2,250	\$3,000	\$4,500
Fiberglass	\$7,500	\$8,200	\$9,500
-			

#### Characteristic Capital Expenditure (CCE)

CCE = Total Surface Area (m<sup>2</sup>) x Representative Structural Thickness (m) x Density of Material (kgm<sup>-3</sup>) x Cost of Manufactured Material per unit Mass (\$kg<sup>-1</sup>).

Material	RST [cm]	MMC [USD/Tonne]	CCE/material [\$]	TOTAL CCE [\$]
Steel	3.83	\$3,000	\$1,406,794	\$1,587,882
Fiberglass	1.78	\$8,200	\$181,088	

Notes/Comments