

Team CalWave

Material List

Material	Surface Area [m ²]	Density [kg/m ³]
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
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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
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Characteristic Capital Expenditure (CCE)

CCE = Total Surface Area (m²) x Representative Structural Thickness (m) x Density of Material (kgm⁻³) x Cost of Manufactured Material per unit Mass (\$kg⁻¹).

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