

Team WaveSwing

Material List

Material	Surface Area [m <sup>2</sup> ]	Density [kg/m <sup>3</sup> ]
Steel	256	7,850

Representative Structural Thickness

Material	Low [cm]	Operational [cm]	High [cm]
Steel	0.92	1.05	1.19
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Manufactured Material Cost

Material	Low [USD/Tonne]	Typical [USD/Tonne]	High [USD/Tonne]
Steel	\$2,250	\$3,000	\$4,500
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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	1.05	\$4,500	\$94,954	\$94,954

Notes/Comments

High MMC judged due to need to manufacture to high tolerance for sealed surfaces