Project: Pembroke Dock Marine Client: Port of Milford Haven Location: UK Est Type: **OPA Primary Material Estimate** 1.0 Foundations and Ground Works Geotextile Membrane (Terram - 225m2/Roll) 58 Rolls 172,000 Imported Filling **Tonnes** 15,000 Imported clean stone Tonnes Reinforced Concrete (Assume Batching Plant) • Cement 5,500 Tonnes Sand 16,000 **Tonnes** 26,000 • Aggregate **Tonnes** Mesh Fabric Reinforcement - A393 283 Tonnes **Bar Reinforcement** 994 **Tonnes** 2. Frame and Facade Structural Steel Frame **Tonnes** Insulated Box Profiled wall sheeting Tonnes Insulated Box Profiled roof sheeting **Tonnes** Metsec Purlins and sheeting Rails 194 Tonnes Large Industrial Doors Tonnes 3. Internal Fit-Out Building Fit-out would be subject to specific end user specifications. However, the following can be assumed: Large Overhead Gantry Cranes 8 Nr Switchgear, power and lighting installations, office and welfare facilities. 30 HGV **Small Goods Delivery Vans** 60 LGV 4. External Works Geotextile Membrane (Terram - 225m2/Roll) 311 Rolls 34,015 Tonnes Imported Filling Imported clean stone 16,747 **Tonnes** Reinforced Concrete (Assume Batching Plant) • Cement 3,000 Tonnes Sand 8,800 **Tonnes** 14,000 Tonnes Aggregate Mesh Fabric Reinforcement - A393 278 **Tonnes** Tarmacadam 7,783 Tonnes

| Calculations |                        |
|--------------|------------------------|
| 324146       | tota tonnage materials |
| 22           | tonne hgvs             |
| 14733.90909  | total hgvs             |
| 6            | construction years     |
| 312          | construction weeks     |
| 1560         | construction days      |
| 9.44481352   | Average HGVs per day   |