

Installation Requirements Comparison

Concrete Wall



Reduce Dig



Blinding



Insert Foot (Compact Bottoms)



Kicker (Toe)



Water Bar (seal)



Retaining Wall

Neptune System



N/A



N/A



N/A



N/A



N/A



N/A

↓
Shuttering & concreting
↓
Re-bar Allowance
↓
Back fill, removal of waste

↓
N/A
↓
N/A
↓
N/A



Installation Timescales for 10 m2

CONCRETE INSTALLATION

Fencing off of whole area, leasing of
Fence, security and H & S advisers
In accordance with Safe Working
Area regulations at an average
Cost of £100 p.w.

Installation of a haul road.
Concrete cannot be poured if the
outside temperature is less than 2⁰F
During low temperatures the pouring
Is delayed until such time a temperatures
Have increased.

Installation of a coffer dam in accordance
With Safe Working Area Regulations
(riverside or seaside)
Average cost of £12-16k per 20m dam.

NEPTUNE INSTALLATION

There is no water used in any of
the manufacture of the System
therefore Neptune can be installed
In any weather conditions
On any terrain, day or night.

Fencing off of whole area, leasing of
fence, security and H & S advisers
in accordance with Safe Working
Area Regulations at an average cost of

On excavation if a table of water is Discovered this will require the use of Pumps and the hire of a settlement Tank in case of contaminated water Thus increasing costs at the point Of excavation. Average cost of £600-800

N/A

Installation of 10 m2 of concrete at the Appropriate temperature without delays Will take up to 29 days to include curing Time, followed by painting on of Bitumen.

Installation of 10 m2 takes 2 days requiring around 3 persons.

Once the concrete has gone off the Site has to be back filled at a rate of 200 mm a layer of compaction using both Man and machinery. The Safe Working Area Regulations have to be adhered to (every Metre deep has to be battered back to 600 mm)

N/A

On completion the cleaning down of the Site to include removal of haul roads, removal of Excess site waste.

N/A

Manpower Cost comparison per 10 m²

CONCRETE - 29 days

Site agent - £30 p.h. x 8 x 29 days	£6,960
Engineer - £30 p.h. x 20 hrs	£ 600
Foreman/Joiner - £22 p.h. x 8 x 29	£5,104
Joiners x 2 £17 x 8 x 29	£7,888

Groundwork Team

Machine drivers x 2 x 15 p.h. x 29 Days	£6,960
Labourers £12 x 8 hrs x 4 days x 3	£8,352

NEPTUNE - 2 days

Site agent - £30 p.h. x 8 x 2 days	£480
Engineer - £30 p.h. x 20 hrs	£480
Foreman/joiner - £22 p.h. x 8 x 2	£352
Joiners	N/A

Groundwork Team

Machine drivers x 2 x 15 p.h. x 4 days	£960.00
Labourers £12 8 hrs x 4 days x 3	£1,152

Haulage

Shuttering (1 man/1vehicle x 8 hrs)	£640	
Delivery	£640	
Removal of shuttering	£640	
Removal of waste	£2,400	
Removal of temporary haul road	£2,400	
Total costs:	£42,584	
Concrete	£42,584	
Neptune costs:	£ 5,064	
Total savings:	£37,520	88.6%

Haulage

N/A	
Delivery	£640
N/A	
N/A	
Installation/removal of Eve platforms	£1,000
Cost:	£5,064



Lifespan/effect on the Environment

Concrete

Concrete has a life span of 100 Years.

Produces greenhouse gases during The course of manufacturing And transit.

Continuously releases these gases For a period of 10 years after Installation.

Fuel costs in transporting and Mixing continuously.

Demolition

Concrete contaminates land tips.

Time span from demolition to

Back fill – 15 days.

Increased fuel to transport broken concrete to land tips.

Neptune

Life of 135 years with cladding

Low carbon footprint
Attractive to the eye

All materials are recyclable

No back fill – no waste material

Demolition

Neptune can be a temporary Measure e.g. short term flood Defence around towns/villages

No back fill – no waste material
Time span to dismantle 4 days.