



West Beach: Engineering Response

<u>Considerations</u>	1: Rock Revetment (3-6t armour)	2: Timber Breastwork & Groynes
Cost: Material + Plant + Prelims (low - high)	£3M-£5M	£2M-£3M
Design Life (years)	50-75	20-25
Consents	Marine License, NE and planning permission	Marine License, NE and planning permission
Construction Risk	Medium, rock delivery by barge.	High, unknown ground.
Programme (inc. consents)	2 years	1-2 years
Standard of protection against flood & erosion risk	High. 1 in 200 SOP.	Moderate + high maintenance
Example photograph		

Key assumptions:

- Option 1 and 2: Rock and Timber = 300m in length (existing timber breastwork removed).
- Both options will inhibit public access to the beach
- Assuming Inn on the Beach remains.
- No National EA Grant in Aid financial contributions.