

PARAFENCE™ for the control of drifting sand

Linear
COMPOSITES

***High
strength
synthetic
windbreak
system***

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Rebuilding and stabilising coastal sand dunes

Objective of trial: considerable time and money had been spent clearing a coastal road of sand which has been blown from adjacent dunes by strong on-shore winds. The objective of this PARAWEB™ Fence trial was to assess its suitability as a sand collecting fence and secondly to contribute to the rebuilding of the dunes prior to stabilisation by planting suitable grasses.

Details of PARAWEB™ Fence installation: a PARAWEB™ Fence of 120 metre length and 0.95 metre height was erected. This fence was chosen as the majority of sand particles were carried close to the ground and no higher than 1 metre. The PARAWEB™ Fence was attached to metallic support posts. The end posts were guyed to suitable anchor pins.

Results: sand deposition throughout the 10 month trial was excellent. The fence worked by substantially reducing the speed of the wind on the leeward side of the fence and consequently precipitating the sand particles from it. Sand build-up was therefore primarily on the leeward side. A degree of scour had occurred in some cases beneath the fence but the net deposition of sand was at a rate 8.5 times greater than that of a traditional slatted wooden fence.

Further observations: one of the features of PARAWEB™ Fence was its “self cleaning” characteristic. As a result of this self cleaning effect and their inherent mechanical robustness the fences have a low rate of saturation and remain effective over a long period of time.



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