



Approved Quality
Management System
AS/NZS ISO 9001:2008
Lloyds Register-Certificate
No. MEL 0927759

Technical Data Sheet
SEASHIELD
SERIES 100 JACKETS

Description:	Outer cover jacket protection for the Denso Seashield Series 100 System.
Composition:	An ultra violet radiation resistant high density polythene jacket supplied with an edge reinforcing strip and optional strap locating markings.
Characteristics:	<ul style="list-style-type: none">• specially designed high impact strength, abrasion resistant polythene sheet• surpasses the strength of fibre reinforced plastics, polyvinyl chloride plastics and liquid coatings• individually custom made to suit each pile• stable over a wide temperature range• non hardening or cracking• contains no volatile components• accommodates vibration and movement of substrate• highly resistant to mineral acids, alkalis, salts and abrasion• long service life of up to 30 years expected
Uses:	Designed and custom made specifically for the protection of Denso Seashield Series 100 Systems used on wharf, pier and jetty piles. Used in conjunction with Smartband support strapping. The mechanical protection of petrolatum systems in relatively sheltered splash and tidal zone marine environments.
Surface Preparation & Application:	Refer to Denso Application Instructions for the Seashield Series 100 systems. Install jackets with the reinforcing strip and markings located on the outside visible jacket overlap. Position and tighten Smartband strapping to secure jacket in place in accordance with the application instructions. Once installed no tape should be visibly protruding from under the jacket surface.
Recommended Temperatures:	Application: + 5 to + 50 °C Service: - 30 to + 80 °C Peak: + 90 °C
Storage:	Store in a cool, dry area away from direct heat and sunlight.
Available Sizes:	Dimensions: pile and system circumference + 150 mm overlap x 1.90 M high Other sizes available by special arrangement.



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Physical Properties:	Test	Method	Units	Value
	Total Thickness	ASTM D1000	mm	2.0 ± 0.1
	Total Weight	ASTM D751	kg/m ²	1.88 ± 0.09
	Density	ASTM D1505	kg/L	0.94
	Breaking Strength	ASTM D1000	N/mm	≥ 55
	Elongation at Break	ASTM D1000	%	700
	Yield Strength	ASTM D1000	N/mm	≥ 32
	Elongation at Yield	ASTM D1000	%	13
	Puncture Resistance	ASTM D1000	N	470
	Tear Resistance - Die C	ASTM D1004	N	245
	Dimensional Stability @ 85°C	ASTM D1204	%	± 2
	Low Temperature Brittleness	ASTM D746, B	°C	- 44
	Environmental Stress Crack	ASTM D163 (10%,50°C)	Hours	≥ 1500
	Coefficient of Linear Thermal Expansion	ASTM D696	cm/cm °C	1.2 x 10 ⁻⁴
Oxidative Induction Time	ASTM D3895	minutes	≥ 2000	