AWB
ALPHA BAG RANGE

All Weather Bag Systems Limited
26E William Pickering Drive,
Albany, Auckland, 0632
Kevin Harvey | Managing Director
PH: +64 21 179 0790
Email: info@awb.co.nz
Website: www.awb.co.nz

ALPHA COASTAL EROSION PROTECTION SYSTEM

AWB Alpha Bags are an innovative, coastal erosion protection system that uses a specifically designed UV-stabilised polypropylene bag, loaded with sand or similar fill. Our bag systems are most effective once filled and stacked in designated erosion zones. These including coastal, land development, riverbank reinforcement, and civil construction.

AWB is committed to helping New Zealand protect and restore our environment and coastal landscape.

Benefits:
U.V. protected
Corrosion-resistant to saltwater and contaminates
Hugely cost-effective compared with traditional methods
Minimal time and equipment required
Environmentally friendly
Compatible for the regeneration of vegetation
Re-useable and re-locatable

Features:
The permeable synthetic fabric membrane
Anti-aging
Non-toxic
Non-combustible
U.V. protected

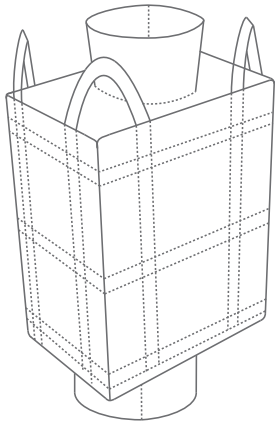
Alpha / Alpha Plus Technical Specifications:
Material: Polypropylene (PP)
Material specification: 213 g/m^2
Safe working load: 1000 kgs (1500 kgs ALPHA plus)
Top filling spout: 70gsm coated 450x500mm
Bottom filling spout (plus): 70gsm coated 450x500mm
Lifting belts: 50gsm virgin PP
UV-resistance: 3%

***Alpha Long Life Technical Specifications:**
Material: Geo Textile PP Nonwoven
Material Specification: 600 g/m2
Weight Variation: 0.1%
Thickness: 4.6mm
Breaking Strength: 20.2 KN/m
Breaking Elongation: 68%
CBR mullen burst strength: 4008 N
Sieve size 090: 0.12 Mm
Verticle permeability coefficient: 2.8x102
UV-resistance: 10+ years U.V Protection

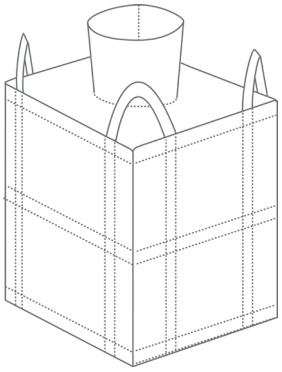
Applications:
Sand dune stabilisation
Civil engineering projects
Temporary floodwalls
Flood control
Retaining walls
Temporary water channel re-direction
Riverbank stabilisation

Recommended fill options:
Sand
GAP 20 / 40
Compact rock
Concrete mix

ALPHA



ALPHA (plus)



ALPHA LONG LIFE

FILLED DIMENSIONS (mm)

ALPHA	900	1250	900
ALPHA plus	900	1250	900
*ALPHA LONG LIFE Staple Fibre 600gsm Needle punched Geotextile Bags 10+ years U.V protection	900	900	900

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CASE STUDIES

PROJECT DETAILS
Location: Baylys Beach, Dargaville, Northland, New Zealand
Challenge: Coastal erosion
Started: October 2015
Status: Completed December 2015

PROJECT DETAILS
Location: North Western Motorway, Auckland, New Zealand
Challenge: Civil engineering
Started: October 2016
Status: Completed October 2019

Fletcher/Acciona, Northern Access Puhoi to Wark-worth Motorway - June 2018

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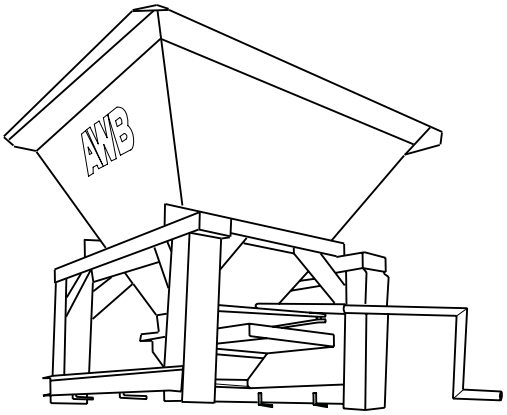
HOPPER

FILL DISPENSING SYSTEM

The AWB Hopper is a 1m3 fill dispensing unit, a specifically designed system to be used with all AWB products. The system is safe, economical, relocatable, time and cost-efficient, delivered directly to the work site to increase production and efficiency.



Utilising a manual operated slide gate valve control, the chosen fill is easily dispensed through the slide chute into the bag. All parts of the AWB Hopper are engineer certified and constructed from welded steel.

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SAFETY INSTRUCTIONS FOR AWB HOPPER

AWB RECOMMENDS THE FOLLOWING SAFETY EQUIPMENT BE WORN WHEN USING THE BAG FILLING HOPPER

SAFE OPERATION

Filling AWB bags requires team of two (2): Hopper operator / Machine operator

Hopper must be placed on flat, firm surface.
Forklift attachments via a digger or loader is the PREFERRED METHOD.
4x two tonne chains provided be used as an alternative.

Hopper operator attaches AWB bag to the hopper using the 4 straps and ties the filling chute in place.
Machine operator keeps machine stationary at this time.

Hopper operator moves away from hopper and machine operator fills the hopper filler chute.
Hopper operator and machine operator must be in eye sight at all times.

1. Machine operator moves back.
2. Hopper operator pulls 4x corners of the AWB bag outwards to prevent creasing.
3. Hopper operator moves back 1x meter and pulls the handle.
4. Hopper operator assesses when AWB bag is full and removes the straps and filling chute.
5. Machine operator moves hopper away from AWB bag using fork or chain attachment.

Hopper must never be lifted when still attached to a full AWB bag.

Hopper operator and any other persons must maintain a safe distance of 4x metres from machine when lifting the AWB bags into place or carrying AWB bag into its position.

MACHINERY REQUIRED

CONTRACTOR TO PROVIDE

Machines capable of lifting hopper, filling hopper and moving filled AWB bags.
2 tonne chains have been provided. These are only to be used for moving the hopper.
2 x 1.5 tonne strops have been provided for moving the AWB bags once full.

For further information please contact us:
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