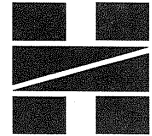




# CWE – ZHEC JOINT VENTURE

香港北角英皇道 370-374 號振華大廈 19 樓  
19/F., China Harbour Building, 370 – 374 King's Road, North Point, Hong Kong  
Tel: (852) 2887 8118 Fax: (852) 2512 0427



Date : 13 Aug 2007  
Our Ref. : CWEZHJV/CV/04/03/E21/00965

Port Works Division  
Civil Engineering & Development Department  
4/F Civil Engineering Building  
101 Princess Margaret Road,  
Kowloon

By fax and By hand  
(Fax. No.2714 2054)

**Attention : Mr. P.L. Fung (Engineer's Representative)**

Dear Sirs

Contract No. CV/2004/03  
Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008)

**Construction of Yung Shue Wan Helipad**  
**Revised Silt Curtain Proposal**


We refer to your E-mail and would like to submit herewith 5 hard copies and 2 soft copies of revised silt curtain proposal which have been certified by the environmental specialist and verified by IEC for your onward transmission to EPD. In view of the EPD's comments, the captioned proposal is revised as noted below:

1. The gap between silt curtain and the seabed is omitted as shown in revised Sketch no: SK003.
2. The silt curtain is mounted on the concrete vertical seawall and would not have any physical conflict with the corals along the granite boulder seawall which is 35m away from the silt curtain as marked on SK003. Also, the spacing of lighted marker buoys for silt curtain shall not be more than 30m apart.
3. In section 6 "Inspection and Rectification Work" of silt curtain was implemented that the ET shall supervise the entire installation and decommissioning process of silt curtain and the rectification requirements of the silt curtain was provided.

We trust the revised proposal is satisfactory to the EP requirements.

Thank you for your kind attention.

Yours faithfully  
For and on behalf of  
**CWE-ZHEC Joint Venture**

  
Mong Ka Fai  
Site Agent  
KFM/CK/yk  
Encl

# Mannings (Asia) Consultants Ltd

Address: Unit A-B, 14/F, Skyline Tower, 18 Tong Mei Road, Mongkok, Kowloon

Tel: 852 - 3168 2028 Fax: 852 - 3168 2022

To:	CWE-ZHEC JV	Date:	13 August 2007
Attn:	Mr Alan Mong / Mr K M Mok	Fax:	2379 5931
From:	Mr Mark Cheung	Ref:	B1078/B01551
Job No.	B1078	Total Pages:	1

**SUBJECT: Method Statement for Silt Curtain (Rev. 2)**

Contract No. CV/2004/03

Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005-2008)

Construction of Yung Shue Wan Helipad

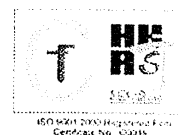
We refer to your submission of Method Statement for Silt Curtain under today email, the subsequent comment by ET via email and letter from ET dated 13 August 2007 .

We write to advise that we have no comment on the captioned.

Regards,

Mark Cheung  
Independent Environmental Checker

Cc: Cinotech - Dr Priscilla Choy (fax: 3107 1388)



Our ref.: MA7018/Corres/Out/sl70813-v1

CWE-ZHEC Joint Venture  
19/F, China Harbour Building,  
370-374 King's Road,  
North Point, Hong Kong

By Fax: 2379 5931  
13 August 2007

Attn.: Mr. Alan Mong

Dear Sir,

**Contract No. CV/2004/03**  
**Maintenance and Repairs to Franchised and Licensed Ferry Piers (2005 – 2008)**  
**Construction of Yung Shue Wan Helipad – Works Order No. YSWH/01/03**  
**- Method Statement for Silt Curtain**

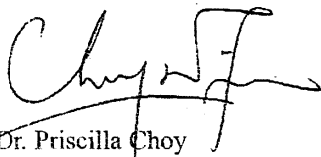
We refer to your letter (Ref: CWEZHJV/CV0403/E21/00923) dated 13 August 2007 enclosing the Method Statement for Silt Curtain (Rev. 2).

Under Condition 2.5 of the Environmental Permit (EP-242/2006), we would like to certify that the captioned report complies with the information and recommendations contained in the approved EIA Report (Register No. AEIAR-094/2006).

Attached please find the certification page of the captioned report for your further action.

Should you require any further information, please contact the undersigned at 2151 2089 or our Ms San Lau at 2151 2077.

Yours faithfully,  
Cinotech Consultants Ltd.



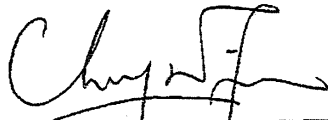
Dr. Priscilla Choy  
Environmental Team Leader

Encl.

CEDD (Attn: Mr. PL Fung)  
CZJV (Attn: Mr. Mok)  
IEC (Attn: Mr. Mark Cheung)

w/e fax: 2714 2054  
w/e fax: 2379 5931  
w/e fax: 3168 2022

**METHOD STATEMENT**  
**FOR**  
**SILT CURTAIN**



Certified by Environmental Team Leader  
Dr. Priscilla Choy

## **1.0 Introduction**

This document “Method Statement for Silt Curtain” which outlines the methodology for installation, operation and removal of silt curtain throughout the whole course of works for the construction of Yung Shue Wan Helipad, proposed by CWE-ZHEC Joint Venture.

## **2.0 Scope of Works**

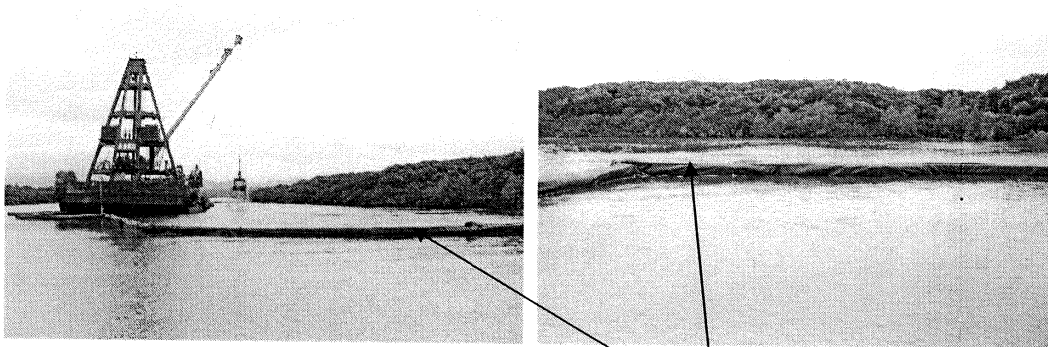
Silt curtain shall be provided during all piling and works affecting water quality within the site. To limit pollution of water, woven geotextile shall be used as silt curtain system surrounding the works area as shown on attached drawings in Appendix A. The silt curtain system is sustained by floating foam and in such a way that tidal rise and fall is accommodated. Concrete anchor block is used as self-weight to fix the silt curtain in appropriate location.

## **3.0 Use of Material**

Bonar SG100/100 woven geotextile which manufactured by BONTEC is proposed as the silt curtain system, catalogue is attached in Appendix B. BONTEC operated in accordance with an ISO 9001:2000 quality assurance system and ISO 14001 environmental management system to provide a good quality product. The Bonar geotextile is widely used in recent port works construction such as CV2003/06 – Stanley waterfront improvement project and CV/2004/02 – Reconstruction of Wong Shek & Ko Lau Wan public pier project. The properties of Bonar geotextile is satisfactory and fulfill the requirement as stipulated in particular specification.

## **4.0 Silt Curtain Installation Methodology**

- 1) Carry out initial topographical survey to determine approximate depth of water for fixing silt curtain. The topographic survey shows that the water depth ranges from 5.5 to 6.5m
- 2) Fabricate the silt curtain in 6.5m length per panel according to the maximum water depth. The width of each panel was fixed at 5.25m as the width of the geotextile supplied from the factory. Make sure the length of each panel was sufficient for the depth of works area.
- 3) Each individual silt curtain panel was joined together by the use of high strength nylon rope.
- 4) The top of silt curtain is attached to a 300x300m floating foam for buoyancy. Steel chain of 5kg/m weight was fixed along the bottom of the silt curtain for adhering the panel to the seabed level, see photo 1 & 2.
- 5) Launching the silt curtain into the sea by crane boat to cover the site area. While the silt curtain has floated alignment in position, concrete blocks are sunk to anchor the silt curtain. Concrete block is tied to the silt curtain at 30m intervals.
- 6) Lit markers buoys with light are installed onto the silt curtain to aid night navigation and prevention of collision of boat.



**Photo 1 & 2**

300x300 Foam

### **5.0 Silt Curtain Removal**

After completion of the marine works, the silt curtain shall be removed as elaborated as follows:

1. Prior to decommission of silt curtain, make sure all marine works or works affecting the seawall shall be completed, and also the water quality shall be checked to ensure no dispersion of muddy water outside the works area.
2. Loosen the fixing wire of the silt curtain from the concrete block and remove the silt curtain by motor boat.
3. Lifting the concrete block slightly by driver team and crane boat in order to minimize the disturbance of seabed causing mud wave.

### **6.0 Inspection & Rectification Works**

1. Diver inspection shall be carried out to inspect the installation and decommission of silt curtain to ensure proper installation and functioning of the silt curtain according to the design drawing, also make sure that no physical conflict with the existing corals along the adjacent granite bounder.
2. During the entire construction period, visual inspection, water monitoring and regular diver inspection shall be carried out to ensure no muddy water passing through the silt curtain system and maintain proper functioning of the silt curtain.
3. The Environmental Team (ET) shall supervise the entire installation and decommissioning processes. The ET shall also closely monitor the effectiveness of the silt curtain and report any irregularities which may affect its proper functioning so as to trigger early rectification by the contractor.
4. In case of any malfunction of the silt curtain, diver inspection shall be carried out to check whether there is any damage or defect of the silt curtain and the situation will be immediately reported to the ET. Once the damage or defect is

<b>CWE-ZHEC Joint Venture Maintenance and Repairs to Franchised and Licensed Ferry Pier Construction of Yung Shue Wan Helipad</b>	<b>Rev. 2</b>
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found, the rectification works shall be carried out to maintain well- functioning of the silt curtain after the ET Leader agrees on the rectification methods.

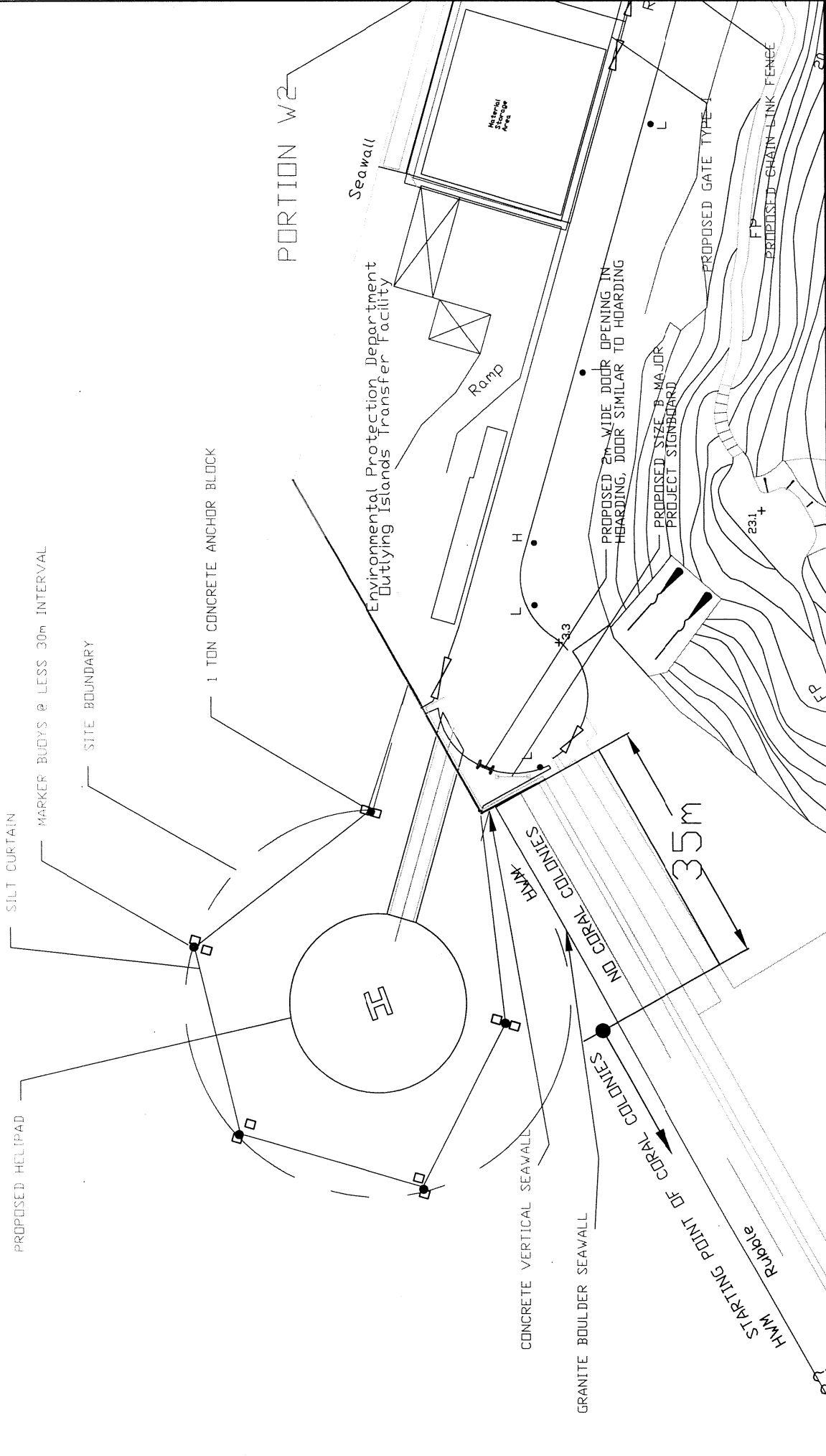
**7.0 Remark**

1. The spacing of the proposed lighted marker buoys for the silt curtain shall not be more than 30m apart.
2. The silt curtain will be mounted to the concrete seawall (Vertical Seawall) and would not have any physical conflict with the present corals along the granite boulder seawall. According to the initial coral survey report, the location of coral will be at least 35m away from the concrete seawall as well as the silt curtain.

## **APPENDIX A**

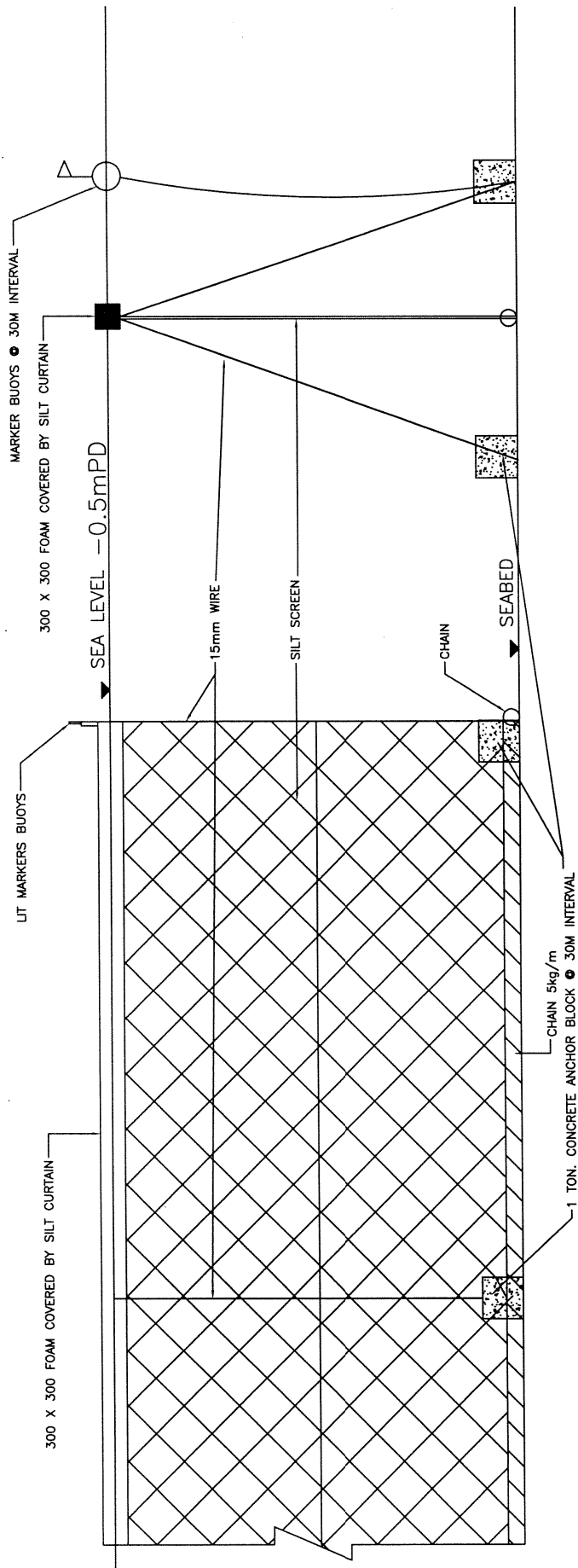
### **LAYOUT OF SILT CURTAIN**





PORTION W2

CLIENT CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT 土木工程發展署	CONTRACTOR CWE-ZHEC JOINT VENTURE	CONTRACT TITLE: WORKS ORDER No.YSMH/01/03 UNDER CONTRACT CV/2004/03 CONSTRUCTION OF YUNG SHUE WAN HELIPAD		SKETCH TITLE: PROPOSAL OF LOCATION OF SILT CURTAIN		SCALE	N.T.S	CAD REF	DWG	A/C APPR
		CONTRACT TITLE: WORKS ORDER No.YSMH/01/03 UNDER CONTRACT CV/2004/03 CONSTRUCTION OF YUNG SHUE WAN HELIPAD		SKETCH TITLE: PROPOSAL OF LOCATION OF SILT CURTAIN		DATE	13-08-2007	A/C DWG NO	Sheet 1 of 1	REV
				DRAWN	C.S. WONG DESIGNED	CHECKED	K.F. MONG APPROVED	SKETCH NO SK 004		D



# ELEVATION OF SILT SCREEN


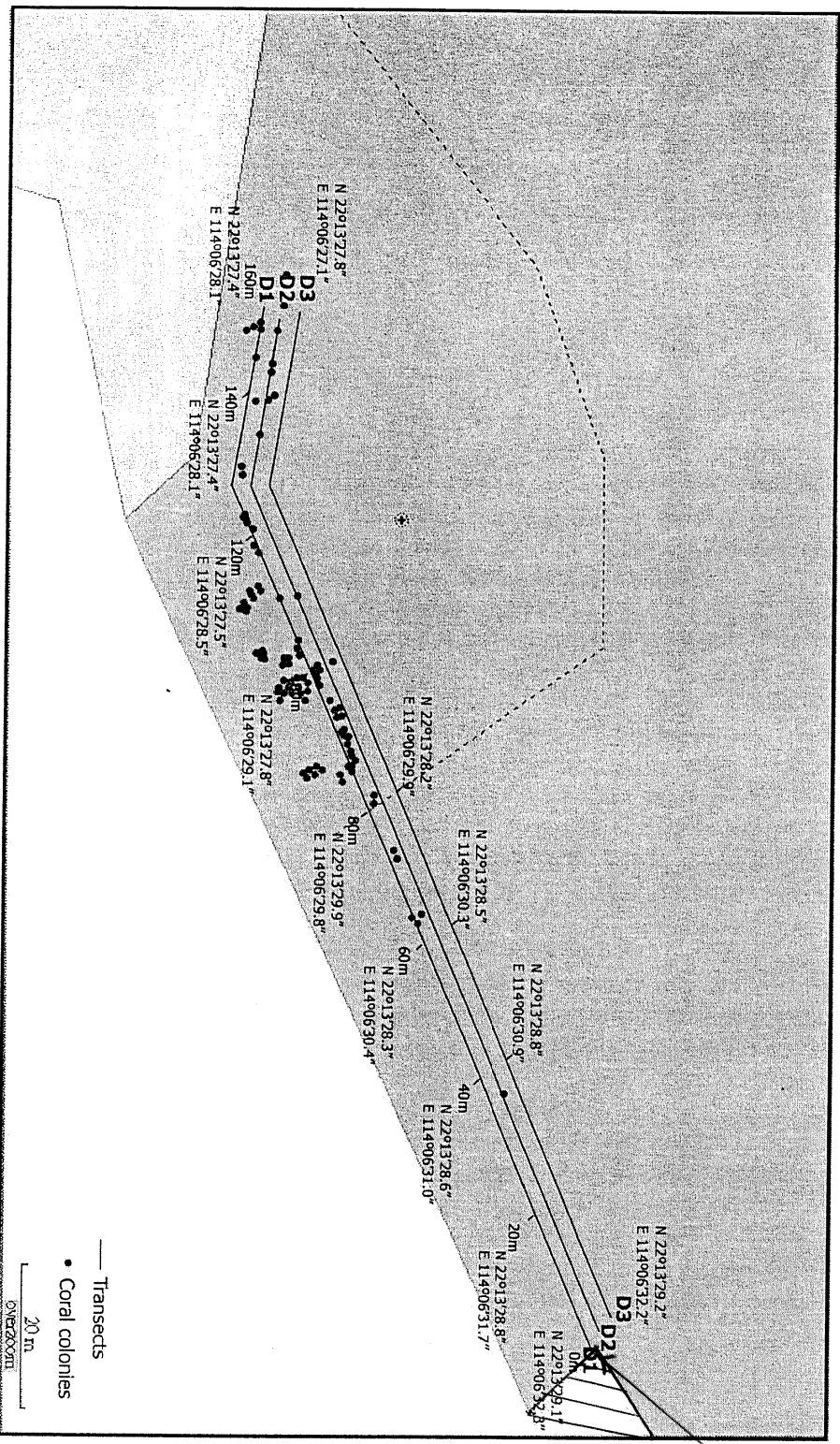
CLIENT  CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT 土木工程拓展署	CONTRACT TITLE: WORKS ORDER No. YSWH/01/03 UNDER CONTRACT CV/2004/03 CONSTRUCTION OF YUNG SHUE WAN HELIPAD		SKETCH TITLE: PROPOSAL OF ELEVATION OF SILT SCREEN		A/C APPR 1 of 1 REV B
	CONTRACTOR  CWE-ZHEC JOINT VENTURE	SCALE 1:75	CAD REF A/C DWG NO 13-08-2007	DWG DWG NO SKETCH NO SK 003	
		DRAWN C.S. WONG DESIGNED	CHECKED K.F. WONG APPROVED		

Fig. 4.1 Map Showing the Distribution of Coral Colonies at the Impact Monitoring Site (IMS). Orange dots represent coral colonies. GPS coordinates of the transects are shown.



Edge of  
Vertical Seawall  
(Concrete)

— Transects  
• Coral colonies

20 m  
0 10 20 30 40 50 60 70 80 90 100

## **APPENDIX B**

### **MATERIAL CATALOGUE OF SILT CURTAIN**

Silt Curtain  
**Bontec SG100/100**

April 2007



## Table of Contents

### 1) **Manufacturer Company Profile**

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- Bonar Technical Fabrics company profile

### 2) **Product Specification**

---

- Bontec SG100/100 technical data sheet

### 3) **Certification**

---

- ISO 9001:2000 by BQA – Bonar Technical Fabrics
- ISO 14001:2004 by BQA – Bonar Technical Fabrics
- Certification of conformance
- Bonar TF acquisition of UCO Technical Fabrics

### 4) **Installation Guideline**

---

- Recommendation on installation

### 5) **List of Project Reference**

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- Name and detail of projects

### 6) **Approval Letters**

---

- Bonar's product recognition

### 7) **Photo References**

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- Photo References

## Manufacturer Company Profile



WE UNDERCOVER THE WORLD

**bontec**

*woven and nonwoven geotextiles*

A TOTAL RANGE OF GEOTEXTILES

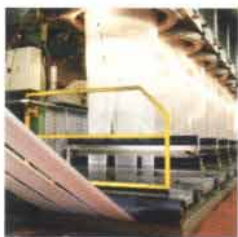


## WHY CHOOSE BONTEC® GEOTEXTILES ?



**bontec**

woven and nonwoven geotextiles



Fibre Extrusion



Non woven geotextiles



Woven geotextiles



State of the art laboratory



First class customer service

**Bonar Technical Fabrics** is Europe's premier manufacturer of woven and nonwoven geotextile products. Through our continuous commitment to **quality, product development and production improvement**, we have earned our position as a major player in our markets. Today, with over 30 years experience in the geosynthetics industry, and the full backing of our parent company, we are confident that we will continue to grow our business and remain at the forefront of our markets for many years ahead.

Manufactured under the brand name **Bontec®**, using state of the art **geotextile production technology**, our woven and nonwoven geotextile ranges offer product solutions for the functions of Separation, Filtration, Drainage, Erosion Control, Reinforcement and Protection.

### ■ In-house Fibre Production

Fibre production involves the extrusion of continuous filaments that are then cut into short staple fibres. Through the careful identification of fibre formulation, filament density and staple fibre length, we can ensure that the mechanical and hydraulic properties are maximised for each of our nonwoven product ranges.

### ■ Nonwoven Geotextile Production

Using ultra modern needle punching looms and a unique thermal bonding process, our nonwoven geotextile production involves the processing of a uniform web of staple fibres that are orientated and bonded to form a finished sheet product.

### ■ Woven Geotextile Production

Polypropylene tapes are manufactured in our slit film extrusion department prior to being woven on Sulzer looms. The warp tapes (machine direction) are beamed into the loom and the weft tapes (cross-machine direction) are threaded over and under alternate elements. The woven product that emerges offers very high mechanical strengths per unit weight.

### ■ Quality and the Environment

All plants operate in accordance with an ISO 9001:2000 Quality Assurance System and ISO 14001 Environmental Management System. Products are tested internally in our fully equipped geosynthetics laboratory in accordance with the latest European and International standards.

### ■ First Class Customer Service

At Bonar we believe the customer should be able to purchase the most appropriate product for his task. As such our staff are readily available to offer a full service package from the initial product selection phase, through to final delivery and the provision of after sales support.



# BONTEC®: A TOTAL RANGE OF GEOTEXTILES

## NON-WOVEN GEOTEXTILES



### ■ NW: Thermally Bonded Non Woven Geotextiles

Produced using mechanical and thermal bonding processes, the NW range is primarily used for lightweight separation and filtration. Their excellent hydraulic properties result in their preferred use in filtration applications. Typical uses include as a filter to encapsulate a trench drain or a granular drainage blanket.



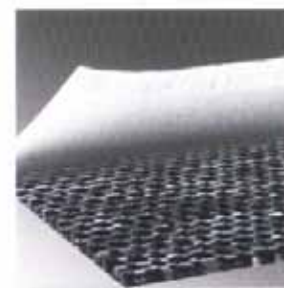
### ■ SNW: Superior Needle-punched Nonwoven Geotextiles

Made from white high tenacity fibres the SNW range offers maximum performance per unit weight and is ideal for use in applications where both strength and elongation are key parameters of the geotextiles' performance.



### ■ VNW: Coloured Needle-punched Nonwoven Geotextiles

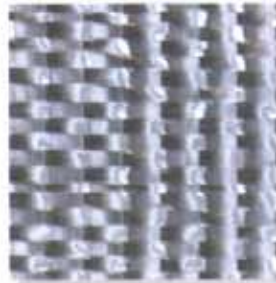
Produced using multi-coloured staple virgin fibres, products range from 200 to 1800g/m<sup>2</sup>. VNW grades offer a felt like appearance and are used in the functions of protection, drainage and erosion control. Areas of application include membrane protection in landfill and reservoirs, or for erosion control on riverbanks and coastlines.



### ■ LG: Geocomposites

Produced via a combination of woven and nonwoven technology, the LG range offers the best of both product types in a single layer. The resulting products are ideally suited to uses where a high demand is placed on the geotextiles' strength, protection efficiency and physical robustness.

## WOVEN GEOTEXTILES



### ■ SG: Standard Grade Light weight Woven Geotextiles

Increasing from 70 to 200g/m<sup>2</sup> SG lightweights are used primarily for separation to prevent good quality granular fill intermixing with the poorer soil below. Typical uses include in new highways, car parks, airport runways, under stone foundation layers for new buildings etc.



### ■ SG: Standard Grade Heavy weight Woven Geotextiles

With possible tensile strengths in excess of 200kN/m, SG heavyweight geotextiles are used in applications where the loadings are severe. Uses include short term basal reinforcement, coastal erosion schemes or areas requiring general soil stabilisation.



### ■ HF: High Flow Woven Geotextiles

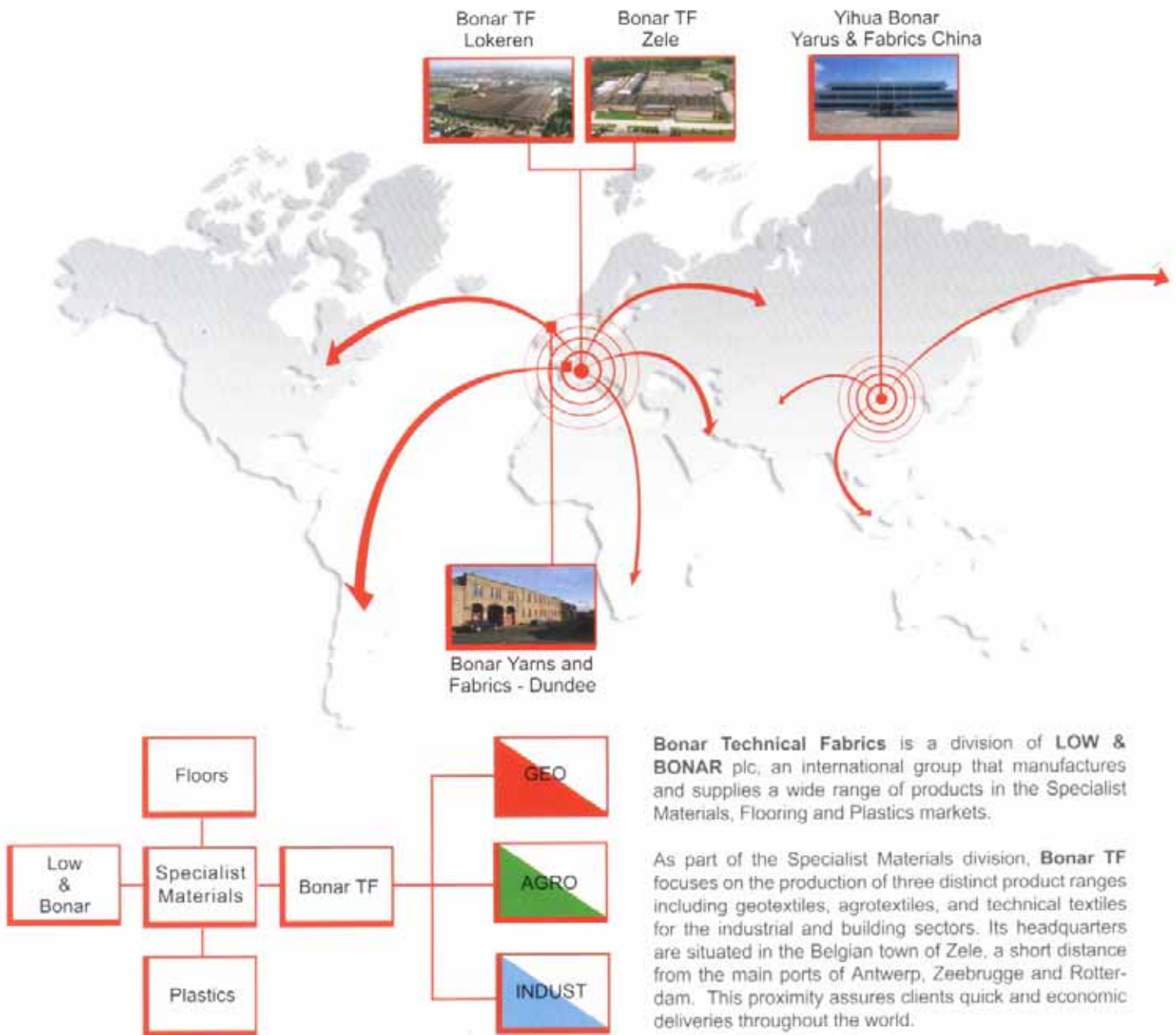
Used where there exists a requirement for the quick escape of excess water, HF fabrics are used primarily in erosion control applications e.g. under concrete revetment blocks or between dissimilar layers of quick draining granular fill e.g. a coarse sand and rounded gravel.



### ■ HS: High Strength Woven Geotextiles

Produced from high tenacity polyester yarns, the HS products offer tensile strengths up to 600kN/m combined with low extension and excellent creep characteristics. Applications include the reinforcement of vertical walls, steep slopes and embankments over soft soil with long term design lives.

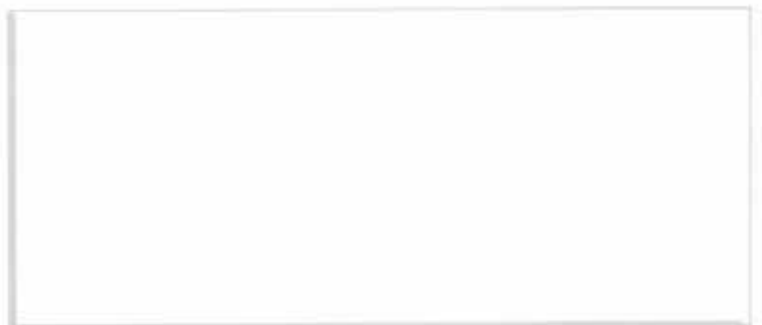
## GROUP STRUCTURE



BONAR TECHNICAL FABRICS NV/SA  
 P/A: Industriestraat 39  
 B-9240 Zele ■ BELGIUM  
 T: +32 (0) 52 457 487  
 F: + 32 (0) 52 457 495  
 e-mail: [geotextiles@bonartf.com](mailto:geotextiles@bonartf.com)

Bonar Yarns & Fabrics Ltd  
 St. Salvador Street  
 Dundee ■ Scotland  
 DD3 7EU  
 T. +44 (0)1382 346102  
 F. +44 (0)1382 229238  
 E-mail: [geotextiles@bonaryarns.com](mailto:geotextiles@bonaryarns.com)

website: [www.bonartf.com](http://www.bonartf.com)



## Product Specification

## SG 100/100

Technical data sheet according to internal specifications Bonar TF: version 03 dd. 17/02/03  
Accompanying documents CE marking: version 01 dd. 01/10/02



1137  
1137-CPD-601  
03

<b>separation</b>	<b>filtration</b>	<b>reinforcement</b>	<b>protection</b>	<b>drainage</b>

	test method	value	tolerance
<b>Mechanical properties</b>			
Tensile strength MD	EN ISO 10319	110 kN/m	- 9,9 kN/m
Tensile strength CD	EN ISO 10319	110 kN/m	- 9,9 kN/m
Elongation MD	EN ISO 10319	20 %	+/- 4,6 %
Elongation CD	EN ISO 10319	11 %	+/- 2,53 %
Static puncture resistance – CBR	EN ISO 12236	12,5 kN	- 2,5 kN
Dynamic perforation resistance – cone drop	EN 918	10 mm	+ 2 mm
<b>Hydraulic properties</b>			
Water permeability normal to the plane	EN ISO 11058	$23 \times 10^{-3}$ m/s	- $6,9 \times 10^{-3}$ m/s
Water flow normal to the plane (*)	EN ISO 11058	23 l/m <sup>2</sup> .s	- 6,9 l/m <sup>2</sup> .s
Characteristic opening size	EN ISO 12956	190 µm	+/- 57 µm
<b>Physical properties</b>			
Thickness under 2 kPa (*)	EN 964/1	1,53 mm	+/- 0,31 mm
Weight (*)	EN 965	475 g/m <sup>2</sup>	+/- 47,5 g/m <sup>2</sup>
Composition	100 % polypropylene woven geotextile		

Durability	<ul style="list-style-type: none"> <li>• geotextile has to be covered within 2 weeks after installation</li> <li>• predicted to be durable for a minimum of 25 years in natural soil with <math>4 &lt; \text{pH} &lt; 9</math> and soil temperatures <math>&lt; 25</math> °C.</li> </ul>
------------	--

<b>roads</b>	<b>railways</b>	<b>foundations &amp; retaining walls</b>	<b>drainage systems</b>	<b>erosion control systems</b>
EN 13249:2000	EN 13250:2000	EN 13251:2000	EN 13252:2000	EN 13253:2000
<b>reservoirs &amp; dams</b>	<b>canals</b>	<b>tunnels &amp; underground structures</b>	<b>solid waste</b>	<b>liquid waste</b>
EN 13254:2000	EN 13255:2000	EN 13256:2000	EN 13257:2000	EN 13265:2000

1. This geotextile is intended for use in both functions & applications highlighted with a bold border.
  2. Roll dimensions are 5,25 m x 100/200 m. Other dimensions on demand.
  3. Bonar Technical Fabrics reserves the right to alter product specifications without prior notice. It is the responsibility of all users to satisfy themselves that the above data is current.
  4. Although not guaranteed, these results do to the best of our knowledge offer a true and accurate record of the product's performance.
  5. Bonar Technical Fabrics cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
- (\*) Not mandated characteristics for CE marking.

# Specification Comparison

## Particular Specification vs Bonar SG 100/100

Updated: 25/08/2006

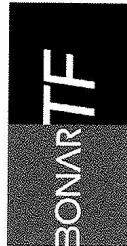
<u>Properties</u>	<b>Particular Specification</b>		<b>Bonar SG 100/100</b>	
	<u>Test Method</u>	<u>Technical Data</u>	<u>Test Method</u>	<u>Technical Data</u>
Tensile strength MD	(mean value)	55 kN/m	EN ISO 10319	110 kN/m
Tensile strength CMD	(mean value)	55 kN/m	EN ISO 10319	110 kN/m
Elongation MD	-	-	EN ISO 10319	20%
Elongation CMD	-	-	EN ISO 10319	11%
Mass per unit area	(mean value)	330 g/m <sup>2</sup>	EN 965	475 g/m <sup>2</sup>
Thickness at 2kN/m <sup>2</sup>	-	-	EN 964-1	1.53 mm
Dynamic perforation resistance	-	-	EN 918	10 mm
Resistance to static puncture	-	-	EN ISO 12236	12.5 kN
Opening size O90	(maximum value)	190 um	EN ISO 12956	190 um
Water permeability	-	-	EN ISO 11058	23 mm/s
Material	-	PP woven	-	PP woven
Roll width	-	-	-	5.25 m
Roll length	-	-	-	100 m

## Certification

# CERTIFICAAT KWALITEITSMANAGEMENTSYSTEEM

## ISO 9001 : 2000

Hiermee verklaart BQA, nv dat het kwaliteitsmanagementsysteem van de firma  
Bonar Technical Fabrics NV – Site in Zele en Lokeren



waarvan de zetel gevestigd is Industriestraat 39 - 9240 Zele - België, op 02-05-2005 beoordeeld werd  
en conform is met de norm ISO 9001, uitgave 2000, voor het volgende toepassingsgebied:

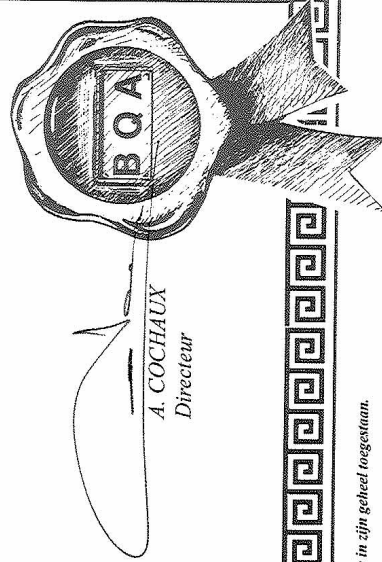
*Development, manufacture and sales of a standard range of fibres and textiles such as agrotextiles, building  
textiles and geosynthetics, as well as similar products especially designed to customer specifications.*

Dit certificaat is door BQA, nv verstrekt conform zijn kwaliteitshandboek betreffende kwaliteits-  
systeemcertificatie en na het afsluiten van het certificatiecontract N° AC/AJ/CER/02-05-2005/301,  
waarbij de firma zich onderwerpt aan de regelmatige controle van haar kwaliteitsmanagementsysteem.

Certificaat N° C/02-05-2005/301  
Geldig tot 02-05-2008



BQA N° QS 006



AC/AJ/C02-05-2005

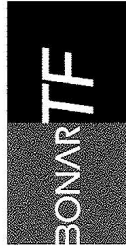
Iedere persoon die kennis heeft van misbruik van dit certificaat moet BQA, nv hiervan verwittigen. Het openbaar maken van dit certificaat is slechts in zijn geheel toegestaan.  
BQA, nv - Montoyerstraat 24 bis 9 - 1000 Brussel.



# CERTIFICAAT MILIEUBEHEERSYSTEEM

## ISO 14001 : 2004

Hiermee verklaart BQA, nv dat het kwaliteitssysteem van de firma  
Bonar Technical Fabrics NV – Site in Zele en Lokeren



waarvan de zetel gevestigd is Industriestraat 39 – 9240 Zele - België, op 02-05-2005 beoordeeld werd  
en conform is met de norm ISO 14001, uitgave 2004, voor het volgende toepassingsgebied:

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textiles and geosynthetics, as well as similar products especially designed to customer specifications.**

Dit certificaat is door BQA, nv verstrekt conform zijn kwaliteitshandboek EMS betreffende milieubeheersysteem-  
certificatie en na het afsluiten van het certificatiecontract N° AC/AJ/CER/02-05-2005/2,

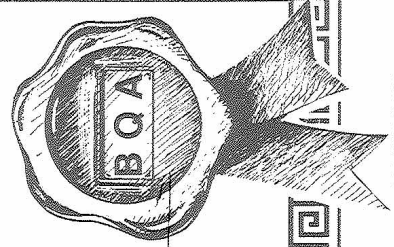
waarbij de firma zich onderwerpt aan de regelmatige controle van haar milieubeheersysteem.

Certificaat N° C/02-05-2005

Geldig tot 02-05-2008



BQA N° 018 EMS



A. COCHAUX  
Directeur

Zele, 14.07.06

## CERTIFICATION OF CONFORMANCE

The undersigned supplier BONAR TECHNICAL FABRICS, hereby states under his responsibility that the following product complies with the indicated technical properties :

L/C n°ICBC04M606896

Type SG 100/100 :	13125,0 m <sup>2</sup>
Type VNW 200-PP-K	9773,2 m <sup>2</sup>

Manufacturer : Bonar Technical Fabrics N.V

BONAR TECHNICAL FABRICS N.V.

  
BONAR TECHNICAL FABRICS N.V.  
p/a Industriestraat 39  
B-9240 Zele

BONAR TECHNICAL FABRICS nv/sa

Industriestraat 39 Zone Z2 • B-9240 Zele • BELGIUM • HR Dendermonde 57 031 • BTW/TVA BE 421 053 442 • Ondernemingsnummer: 0421.053.442



ING IBAN BE84 3900 9581 7059  
BIC: BBRU BE BB

FORTIS-IBAN BE45 2930 1911 2489  
BIC: GEB ABE BB

KBC-IBAN BE66 4400 0019 1143  
BIC: KRED BE BB

ING BRED-IBAN NL34 BBRU 020 9944633  
BIC: BBRUNL2X

# bontec

A bonar technical fabrics product

## Fax

Date: 11-Aug-04	
To: G and E - Hong Kong Mr. Gary NG	From: Isabelle Ruyffelaere - 0032 52 457 487 Philippe Grimmelpez - 0032 52 457 486
Fax:	Pages: 1 +
Your reference: Bonar TF acquisition of Uco Technical Fabrics	
Our reference: G&E11082004.fax	

### To Whom it may concern

We hereby confirm that Bonar acquired the company UCO Technical Fabrics in October 1996 and all activities of the manufacturing and sales of Woven and Non woven geotextiles.

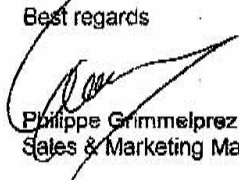
The Company changed name to **BONAR TECHNICAL FABRICS**.

Its headquarters are moved to Industriestraat 39, 9240 Zele, Belgium. At the same location is a new manufacturing plant of non woven geotextiles based.

The plant where woven geotextiles are produced is based on the old UCO location: weverslaan 15, Lokeren, Belgium.

Should you require any further information, please do not hesitate to contact us.

Best regards

  
Philippe Grimmelpez  
Sales & Marketing Manager geotextiles.



BONAR Technical Fabrics nv/sa  
Industriestraat 39 • B-9240 Zele • Belgium  
Tel +32 (0)52 457 411 • Fax +32 (0)52 457 495  
E-mail geotextiles@bonard.com

BONAR Yarns & Fabrics Ltd.  
St. Salvador Street • Dundee DD3 7EJ • United Kingdom  
Tel +44 (0)1382 346102 • Fax +44 (0)1382 202378  
E-mail nguid@bonaryarns.com

# bontec

a bonar technical fabrics product

fax

---

**Date: 14-Jun-05**

**To: G and E – Hong Kong**  
Mr. Gary NG / Mr Stanley

**From: Isabelle Ruyffelaere – 0032 52 457 487**  
Philippe Grimmelpez – 0032 52 457 486

**Fax:**

**Pages: 1 +**

**Your reference: SG 100/100**

---

**Our reference:**

G&E06142005.fax

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Dear Gary,

- With reference to your inquiry of we hereby would like to confirm that:

**Bontec SG 100/100** geotextile is woven in our vertical integrated plant in Belgium according the strict Iso 9001 : 2000 quality and ISO 14001 environmental system.

a/ The material is resistant to all naturally occurring soil acids and alkalis.

b/ The material is resistant to biological attack

c/ when used correctly (cfr installation guidelines), resistant to deterioration vaused by the effects of exposure to weather and burial. The polymers contain special stabilizers to resist to normal UV and oxidation.

d/ this is stable over temeperatures of 0 – 60 °C.

e/ The material is resistant to normal forces imposed during installation. Special forces that might occur during construction / installation must be given to Bonar so that special studies can be done.

Should you require any further information, please do not hesitate to contact us.

Best regards



Philippe Grimmelpez  
Sales & Marketing Manager



BONAR Technical Fabrics nv/sa  
Industriestraat. 39 • B-9240 Zele • Belgium  
Tel +32 (0)52 457 411 • Fax +32 (0)52 457 495  
E-mail geotextiles@bonartf.com

BONAR Yarns & Fabrics Ltd  
St. Salvador Street • Dundee DD3 7EU • United Kingdom  
Tel +44 (0)1382 346102 • Fax +44 (0)1382 202378  
E-mail rguild@bonaryarns.com

## Installation Guideline



## **RECOMMENDATION FOR THE INSTALLATION OF GEOTEXTILES**

- The **BONTEC** geotextiles shall be kept in its original packaging in order to protect it from damaging UV-rays and high temperatures.
- The **BONTEC** geotextiles shall be stored protected from wind, rain, excess moisture or sunlight.
- The **BONTEC** geotextiles shall only be unpacked just before use. The material shall be covered within 1 week
- The **BONTEC** geotextiles shall be labelled and show the following data :
  - roll number
  - quality
  - name of the manufacturer
  - roll length & width
  - roll weight
- The **BONTEC** geotextiles shall be laid with the longitudinal ascis down slopes
- A minimum overlap of 500 mm between the different sheets shall be respected. Sewing of the different fabrics shall be done with a double prayer stitching technique with non deteriorating thread.
- Wherever visibility or installation of the **BONTEC** geotextile is poor an extra safety overlap of +/- 1 m shall be respected
- The surfaces to be covered with **BONTEC** geotextiles shall be smooth and free of sticks, roots, sharp objects, and all debris that may damage the fabric. The surface to be covered shall be firm and unyielding, with no sudden changes or brakes in grade.
- The compacted sub-base shall be maintained in a smooth, uniform and compacted condition during installation of the fabric.
- In area's where wind is prevalent, fabric installation shall be started at the upwind side of the project and proceed downwind. The leading edge of the fabric shall be secured at all times with sandbags or other means sufficient to hold it down during high winds. Sandbags or rubber tires may be used as required to hold the fabric in position during installation. Tires shall not have exposed steel cords or other sharp edges which may snag or cut the fabric. Materials, equipment or other items shall not be dragged across the fabric or be allowed to slide down slopes on the fabric.
- Should the fabric be damaged during any step of the installation, the damaged section shall be repaired by covering it with a piece of fabric which extends at least 0,6 meter in all directions beyond the damaged area. The fabric shall be secured as directed by the engineer.
- Smoking shall not be permitted by personnel working on the fabric.

## List of Project Reference

**Bonar**

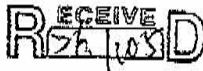
<b>Date</b>	<b>Project</b>	<b>Client</b>	<b>Consultant</b>	<b>Style</b>
Feb-05	CV/2003/06 Stanley Waterfront Improvement Project - Construction Pier and Boardwalk	* Sun Fook Kong (Civil) Ltd	Civil Engineering and Development Department	SG100/100 NW10
Feb-05	99/9028 Lamma Power Station	Wai Kee (Zens) Construction & Transportation Co Ltd	Maunsell Geotechnical Services Ltd	SG100/100
Feb-05	CV/2004/02 Reconst. of Wong Shek & Ko Lau Wan Public Piers	* Kin Shing Construction Co Ltd	Civil Engineering and Development Department	SG100/100
Apr-05	CV/2002/04 Penny's Bay Reclamation Stage 2	Gammon Skanska Ltd Shun Tat Construction Engineering Ltd	Scott Wilson Ltd	SG100/100 SG100/100
Apr-05	HK/12/02 CED, Central Reclamation Phase III, Engineering Works	Best Leader Engineering Ltd Leighton - China State - Van Oord Joint Venture	Atkins China Ltd	SG100/100 SG100/100
May-05	03/8013 Lamma Island to Cyberport	Leader Marine Contractors Ltd Honwin Engineering Ltd	Maunsell Geotechnical Services Ltd	SG100/100 SG100/100
Jul-05	Shenzhen to Tai Po Twin Submarine Gas Pipeline Project	Honwin Engineering Limited		SG100/100
Sep-05	TP37/03 Remaining Engineering Infrastructure Works for Pak Shek Kok Development Package 2A	Leader - Wai Kee (C&T) Joint Venture	Hyder Consulting Ltd	SG100/100
Nov-05	HY/2002/26 Stone Cutter's Bridge	r Hong Kong River Engineering Co Ltd	Ove Arup	SG100/100
Feb-06	CV/2005/12 Fill Reception Facilities at Tseung Kwan O Area 137 Quarry Bay and Mui Wo	Penta-Ocean Construction Co Ltd	Civil Engineering Department	SG100/100
Mar-06	Maintenance Dredging at Castle Peak Power Station (CPPS) Jetty	New Concepts Engineering Development Ltd	Civil Engineering Department	SG100/100
Mar-06	CV/2004/04	China Harbour Engineering	Civil Engineering	SG100/100



		Co (Group)	Department	
Mar-06	HY/2005/06 Castle Peak Road Improvement West of Tsing Lung Tau	Shun Tat Construction Engineering Limited	Mouchel Halcrow JV	SG100/100
May-06	212 Main Works for the Proposed Third Golf Course Development at Kau Sai Chau, Sai Kung	China Harbour Engineering Co (Group)	Ove Arup and Partner	SG100/100 NW15
Jun-06	Hong Kong Convention and Exhibition Centre	Wai Kee (Zens) Construction & Transportation Co Ltd Kaden - Wai Kee (C&T) Joint Venture		SG100/100 SG100/100
Aug-06	EP/SP/52/06 Development of EcoPark in Tuen Mun Area 38	Kaden Construction Limited	Scott Wilson Ltd	SG100/100
Oct-06	Lamma Island Cable Landing	United Marine Co Ltd	Hong Kong Electric Co Ltd	SG100/100
Nov-06	CV/2004/01 Maintenance and Repairs to Seawalls, Piers and Other Port Works	Kin Shing Construction Co Ltd	Civil Engineering and Development Department	SG100/100
Dec-06		Friendly Benefit Engineering Ltd		SG100/100
Feb-07	Prebored Socketted H-Piles at Hong Kong Convention & Exhibition Centre	Yee Hop Engineering Co Ltd		SG100/100

March 12, 2007

## Approval Letters



土木工程處  
Civil Engineering Office

Web site 網址 : http://www.cedd.gov.hk  
E-mail 電子郵件 :  
Telephone 電話 : (852) 2760 3737  
Facsimile 傳真 : (852) 2714 2054  
Our reference 本署檔號 : ( ) in PW WC/CV0402/R20/340 Pt.1  
Your reference 來函檔號 : KS330/2005

香港九龍公主道101號  
土木工程拓展署大樓四樓  
4/F, Civil Engineering and Development Building,  
101 Princess Margaret Road,  
Kowloon, Hong Kong

Kin Shing Construction Company Limited  
1/F,  
27 Yin Chong Street,  
Mong Kok  
Kowloon  
(Attn.: Mr. Patrick P K Chau - Site Agent)

24 January 2005

**BY MAIL & FAX No. 2780 2085**

Dear Sirs,

**Contract No. CV/2004/02**  
**Reconstruction of Wong Shek and Ko Lau Wan Public Piers**

**Material Submission - Geotextile for Silt Curtain**

I refer to your letter of 14.1.2005 enclosing the particulars of the geotextile for fabrication of silt curtain.

In accordance with PS Clause 26.08(2), the proposed "SG 100/100" woven geotextile manufactured by Bonar Technical Fabrics is approved to be used under the captioned Contract.

Pursuant to PS Clause 26.08(1), you are required to submit details of the silt curtains 3 weeks before their deployment.

Contract No.	Initial	Copy	Action
CM	✓		
PM	✓		
SA			
Sub-A	✓		
Eng (1)	✓		
Eng (2)			
G.F			
Foreman			
Q.S	✓		
Safety	✓		
Material	✓		
Survey			

Yours faithfully,

*(Signature)*  
(W H LEE)  
Engineer's Representative  
Port Works Division  
Civil Engineering and Development Department

c.c.  
SIOW/P2B - Site Copy

cls

24-FEB-2005 18:57 FROM SFK

TO 25700089

P.01/01

10:2 78101

**CEDD Civil Engineering and Development Department**

Web site 網址 : <http://www.cedd.gov.hk>  
 E-mail 電子郵件 :  
 Telephone 電話 : (852) 2762 5035  
 Facsimile 傳真 : (852) 2714 2054  
 Our reference 本署編號 : (15) in PW WC/CV0306/R20/340 Pt.01  
 Your reference 來函編號 : CIV:002091/1.2/HW/SY/CC/me(S0087), CIV:002091/1.2/HW/SY/CC/me(S0118)

土木工程處  
 Civil Engineering Office

112

香港九龍公主道 101 號  
 土木工程發展署大樓 4 樓  
 4/F, Civil Engineering and Development Building,  
 101 Princess Margaret Road,  
 Kowloon, Hong Kong

18 February 2005

Sun Fook Kong (Civil) Limited  
 Rms. 3207-10,  
 Great Eagle Centre,  
 23 Harbour Road,  
 Wan Chai,  
 Hong Kong  
 (Attn: Mr. Howard KONG - Fax No.2827 6275)

Dear Sirs,

**Contract No. CV/2003/06**  
**Stanley Waterfront Improvement Project -**  
**Construction of Pier and Boardwalk**

**Fabric for Silt Curtain**

I refer to your above letters dated 21.1.2005 and 15.2.2005 proposing the SG100/100 fabric supplied by "Bonar Technical Fabrics" for silt curtain.

I have no objection to your proposed material for silt curtain.

Yours faithfully,

*Paul Y K MA*  
 (Paul Y K MA)

Engineer's Representative  
 Port Works Division  
 Civil Engineering and Development Department

c.c.  
 Site Office (Attn: S1OW/PIA)  
 CEG/PIA

File PW WC/CV0306/M10/300

YKM/olm

Post-It® Fax Note	7671	Date	24/2/05
To	MR. STANLEY WAN	From	CHARLES SZE - PPD
Co./Dept.	G&E	Co.	SFK
Phone #	2508 0028	Phone #	60347709
Fax #	25700089	Fax #	

# Mott MacDonald Hong Kong Limited

Consulting Engineers

Chief Resident Engineer's Office  
 North Lantau Development - Tung Chung  
 for Territories Development Department

Our Ref : S287/NL1/25.7/283/JY

30 June 1992

China Harbour Engineering Company  
 19/F, China Harbour Building  
 370-374 King's Road  
 North Point  
 Hong Kong.

Attn : Mr. S. Y. Yu

T.D.D. CONTRACT NO. NL 1/91		
C. E. Dept.		
DATE	ACTION	INFORM
SA		llk
DSA		
OS		
ENG		
SUR		
FOREMAN		
FILE		llk

Dear Sirs,

North Lantau Development  
 Contract No. NL1/91  
 Tung Chung Development Phase I - Site Formation  
 Materials for Subsoil Drains

I refer to your letter ref. NL1/C/0097/008/MM/145 of 10/6/92 submitting materials for subsoil drains for our approval.

I have the following comments :

- 1) The proposed subsoil drain material - i.e. 300mm diameter ADS corrugated polyethylene subsoil drain pipes from Benpak Waterwise company is acceptable.
- 2) The proposed Geotextile SG17/15 from UCO (2 layers) as protection for subsoil drainage is acceptable in principal. Please submit further technical specification such as lapping and site storage requirements recommended by the manufacturer.
- 3) The proposed Greenfix Eromat Special type 5 from CCL is still under review. You will be notified of the outcome if a decision is made.

Yours faithfully  
 for MOTT MACDONALD HONG KONG LIMITED

*luke chi*  
 Luke Chi  
 Engineer's Representative

LC/JY/ak  
*ak*

*llk*  
*30/6*  
*2/7*

*llk*

## Photos References



# G AND E COMPANY LIMITED

Rm. B, 13/F Cheung Lee Ind. Bldg.  
9 Cheung Lee Street  
Chai Wan, Hong Kong  
Tel: 2508 0028 / 2570 0103 Fax: 2570 0089

