



金門 - 利達聯營  
Gammon – Leader Joint Venture



**Wan Chai Development Phase II –  
Central-Wan Chai Bypass over MTR Tsuen Wan Line  
Contract No.: HK/2010/06**

**Silt Screen Deployment Plan**

| <b>Rev.</b> | <b>Date of Issue</b> | <b>Remarks</b>                          | <b>Author</b> | <b>Approved</b> |
|-------------|----------------------|---|---------------|-----------------|
| <b>0</b>    | <b>28 FEB 11</b>     | <b>Initial issue</b>                    | <b>JY</b>     | <b>KMB</b>      |
| <b>1</b>    | <b>8 Mar 11</b>      | <b>Amendment for ET IEC comments</b>    | <b>WML</b>    | <b>KMB</b>      |
| <b>2</b>    | <b>10 Mar 11</b>     | <b>General amendment</b>                | <b>WML</b>    | <b>KMB</b>      |
| <b>3</b>    | <b>29 Mar 11</b>     | <b>Revision of Sec 7 and Appendix A</b> | <b>WML</b>    | <b>KMB</b>      |
|             |                      |   |               |                 |



# Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

華益土力有限公司

Ref : G1001/CS/L331/FEP-05/356/2009  
Date : 8 April 2011

## Gammon Leader Joint Venture

28/F Devon House Taikoo Place,  
979 King's Road,  
Quarry Bay,  
Hong Kong

**Attn: Mr. Simon Tong**

Dear Sir,

**FEP-05/356/2009**

**Contract No. HK/2010/06**

**Wan Chai Development Phase II – Central- Wan Chi Bypass – Tunnel over MTR Tsuen**

**Wan Line**

**Silt Screen Deployment Plan**

Referring to your letter ref no. 1101/05.03.00.00/0156L dated 6 April 2011, we have reviewed your submitted details of the captioned plan and hereby certify this submission in accordance with Condition 2.9 of Further Environmental Permit no. FEP-05/356/2009.

Should you have any enquiry, please feel free to contact the undersigned at 2839 5666.

Yours faithfully,

Raymond Dai  
Environmental Team Leader

c.c. CEDD  
AECOM WDII  
ENVIRON

- Mr. Patrick Keung  
- Mr. Frankie Fan  
- Mr. David Yeung

(By Fax: 2577 5040)  
(By Fax: 2587 1877)  
(By Fax: 3548 6988)



Ref.: AACWBIECEM00\_0\_1201L.11

8 April 2011

Gammon – Leader Joint Venture  
28/F, Devon House  
Taikoo Place  
979 King's Road  
Hong Kong

By Fax (2516 6260) & Post

Attention: Mr. Book Kin Man

Dear Sir,

**Re: FEP-05/356/2009**  
**Contract No. HK/2010/06**  
**Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR**  
**Tsuen Wan Line**  
**Silt Screen Deployment Plan (Rev. 3)**

Reference is made to Gammon-Leader Joint Venture's submission of Silt Screen Deployment Plan (Rev. 3) for the captioned through letter (letter ref. 1101/05.03.00.00/0156L dated 6 April 2011) for our review and comment.

Please be informed that we have no adverse comments on the captioned submission. We write to verify the captioned submission in accordance with Condition 2.9 of FEP-05/356/2009.

Yours sincerely,



David Yeung  
Independent Environmental Checker

|      |       |                       |                   |
|------|-------|-----------------------|-------------------|
| c.c. | CEDD  | Mr. Patrick Keung     | by fax: 2577 5040 |
|      | AECOM | Mr. Frankie Fan (PRE) | by fax: 2587 1877 |
|      | AECOM | Mr. Kelvin Cheng      | by fax: 2691 2649 |
|      | LAM   | Mr. Raymond Dai       | by fax: 2882 3331 |

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## 1. Introduction

This submission outline the method and the layout to deploy silt screen for the Marine Works of HK/2010/06 Wan Chai Development Phase II – Central-Wan Chai Bypass over MTR Tsuen Wan Line.

With reference to the Condition 2.9 of Part C of FEP-05/356/2009, silt screens shall be deployed for the seawater intakes affected by the marine work of this project. A Silt Screen Deployment shall be submitted to the Director of the Environmental Protection showing the detail on the design, operation and maintenance requirements.

## 2. Scope of Works

Silt screen shall be provided for the water intake at Fenwick Pier during dredging and construction of bored pile and sheetpile.

The Silt Screen will be installed at the water intake for Telecom House, Hong Kong Academy for Performing Arts and Shui On Centre located near our site area.

## 3. Installed Silt Screen by Other and Our Proposed Backup Arrangement

Contract HK/2009/01 has previously install a silt screen under FEP-02/356/2009 for that particular intake. They shall maintain the silt screen in good condition until removal or handover to us.

If Contract HK/2009/01 decides to removal the current silt screen system, we will install a new silt screen system following the procedure in Section 4 to 8.

In case the existing silt screen is taken over by us, we will provide the inspection and rectification works following the procedure in Section 5 to 8

To limit pollution of water, woven geotextile shall be used as silt screen system that 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 screen is appropriate location.



Details of silt screen system as shown on drawing in Appendix A.

#### **4. Use of Material**

Bonar SG110/110 woven geotextile, manufactured by BONTEC, is proposed as the silt screen system for this project. Catalogue of the material is attached in Appendix B. BONTEC is 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 CV/2003/06 – Stanley waterfront improvement project, CV/2004/02 – Reconstruction of Wong Shek and Ko Lau Wan public pier project, CV/2002/04 – Penny’s Bay Reclamation Stage 2 and HK12/02 – CED, Central Reclamation Phase III, Engineering Works (Please refer to Appendix B). The properties of Bonar geotextile is satisfactory and fulfill the requirement as stipulated in particular specification. Visual inspection of the silt screen shall be carried in a daily basis.

According to the Environmental Monitoring and Auditing Manual, regularly water monitoring of water quality shall be carried out by Environmental Team in order to complies statutory regulation and maintain quality of water during the construction activities being undertaken.



## 5. Silt Screen Installation Methodology

- a. Liaise with the owners and the operators of the water intakes.
- b. Carry out condition survey to the existing screen frame of water intake.
- c. Assemble the silt screen system on land as the details shown in Appendix A.
- d. Delivery the silt screen system to the location of water intake by means of marine vessel.
- e. Crane boat to place the weight sunker onto the seabed.
- f. Install M24 anchor bolt to seawall above high sea level by means of pneumatic drill for further fixing of silt screen system.
- g. Attach the anchorage steel chains to the weight sunker and silt screen system, and then deploy the silt screen system to the position.
- h. Fix both end of silt screen system to M24 anchor bolts to secure the silt screen system in position.
- i. The entire installation process shall be assisted by divers.
- j. Water sampling shall be taken on the open top of the floating silt screen system.

## 6. Silt Screen Removal

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

- a. Prior to decommission of silt screen, make sure all marine works shall be completed.
- b. Loosen the fixing end of the silt screen on seawall onboard of water boat.
- c. Deposition of silt screen system by means of work boat.
- d. Detach the anchorage steel chains from silt screen system and weight sunker.
- e. Lift up and remove weight sunker by crane boat.



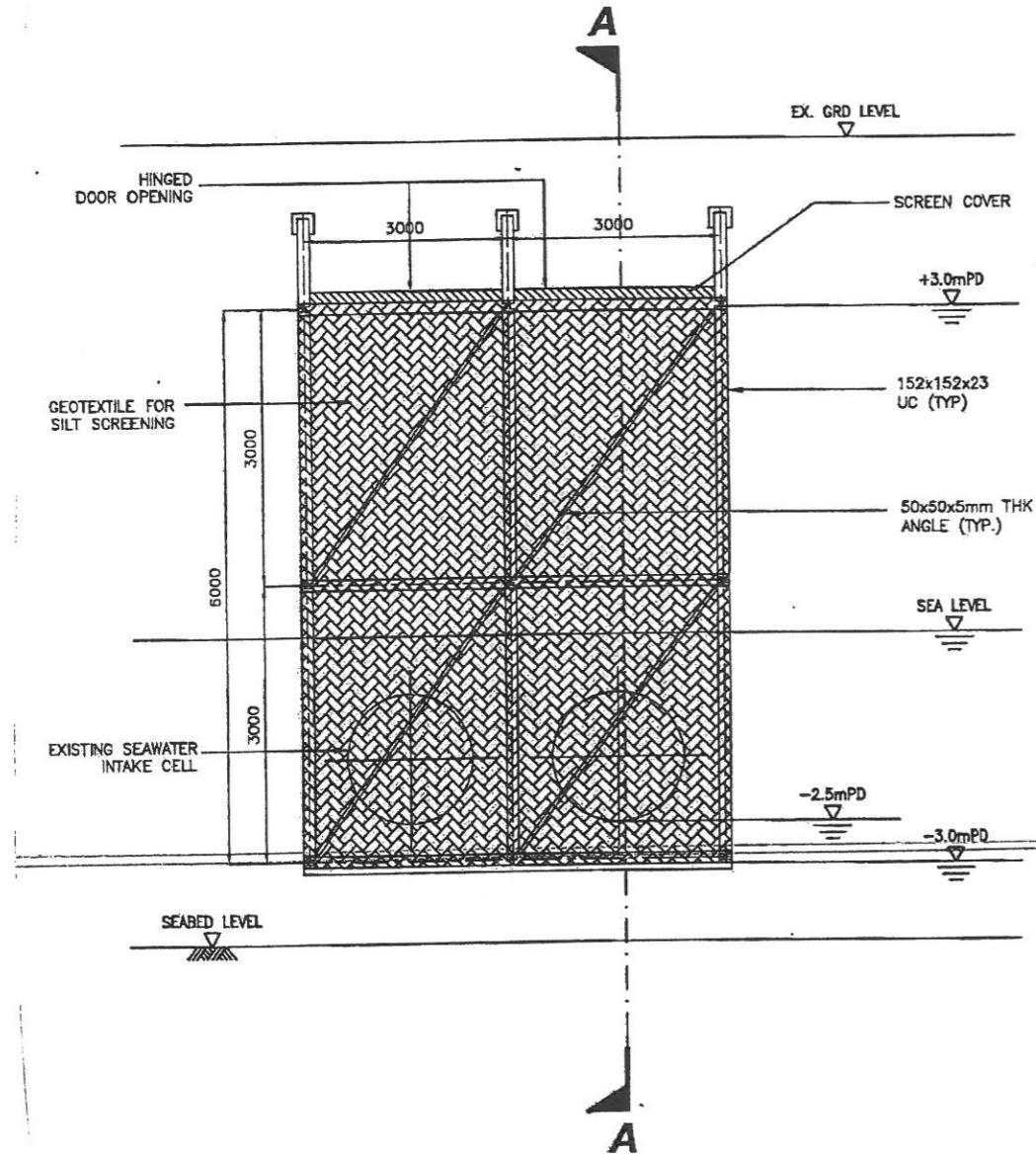
## 7. Inspection and Rectification Works

- a. Diver inspection shall be carried out to inspect the installation of silt screen to ensure proper installation and functioning of the silt screen according to the design drawing.
- b. During the entire construction period, daily visual inspection shall be carried out to ensure proper functioning of the silt screen system.
- c. Cleaning of silt screen by means of brush onboard of works in low tide period will be carried monthly or when required by Independent Environmental Checker.
- d. Refuse around the silt screen system shall be collected at regular intervals on daily basis so that the water behind the silt screen kept free of floating debris.
- e. According to the Environmental Monitoring and Auditing Manual, regularly water monitoring of water quality shall be carried out by Environmental Team in order to complies statutory regulation and maintain quality of water during the construction activities being undertaken.
- f. The Environmental Team shall supervise the entire installation and decommissioning processes. The Environmental Team shall also closely monitor the effectiveness of the silt screen and report any irregularities which may affect its proper functioning so as to trigger early rectification by the Contractor.
- g. In case of any malfunction of the silt screen, diver inspection shall be carried out to check whether there is any damage or defect of the silt screen and the situation will be immediately reported to the Environmental Team. If the screen is found damaged and repairing works are identified, the dredging work within 50m from the location of damage will be temporarily suspended. The silt screen will then be lift up by grab dredger/ derrick barge. A new piece of geotextile with sufficient overlapping length (1m) will be attached to the existing silt screen. The dredging works will resume after repairing work.
- h. the rectification works shall be carried out to maintain well-function of silt screen after the Environmental Team Leader agrees on the rectification methods.
- i. 20 linear meter additional geotextile will be ready for use and keep on site for emergency replacement in case damage or defect is observed of the silt screen.



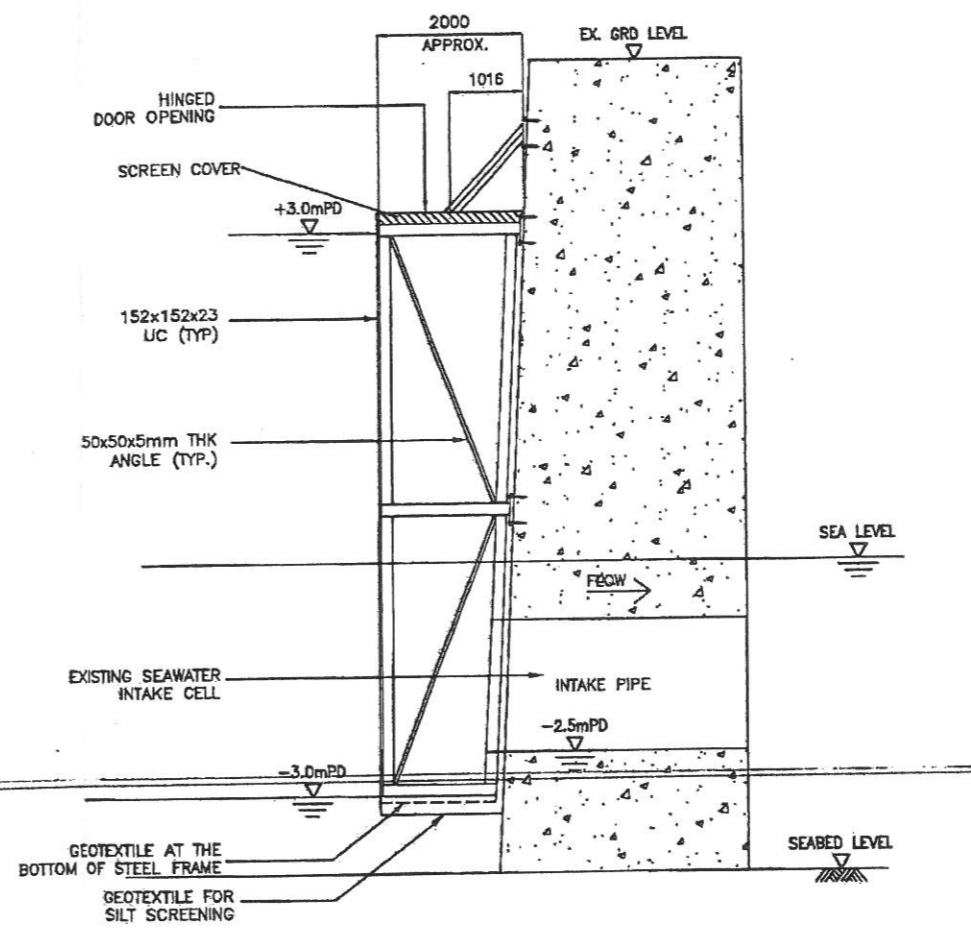
## **Appendix A**

### **Layout Plan and Detail**



**ELEVATION OF TYPICAL DETAILS FOR SILT SCREEN OVER INTAKE PIPES**

SCALE 1 : 150



**SECTION A-A**

SCALE 1 : 150

| Rev  | Description       | Date | Dgn | Chk | App |
|--|-------------------|------|-----|-----|-----|
| <b>WAN CHAI DEVELOPMENT PHASE II</b>   |                   |      |     |     |     |
| WAN CHAI DEVELOPMENT PHASE II -<br>CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE |                   |      |     |     |     |
| Contractor   |                   |      |     |     |     |
|  |                   |      |     |     |     |
| Drawing Title  |                   |      |     |     |     |
| SILT SCREEN FOR TELECOM HOUSE<br>HKAPA AND SHUI ON CENTRE                          |                   |      |     |     |     |
| Drawn  | Scale 1:1000 @ A3 |      |     |     |     |
| Designed   | Status            |      |     |     |     |
| Checked  |                   |      |     |     |     |
| Approved   | Drawing No.       |      |     |     | Rev |
| CAD Ref  | TWK/SK/M053       |      |     |     |     |

Drawing No. TWK/SK/M051



VICTORIA HARBOUR

2 NOS. OF 1000 DN  
SUBMARINE PIPELINE

EXISTING TSUEN  
WAN LINE TUNNEL

50m PIPELINE RESERVE 50m PIPELINE RESERVE

SUBMARINE  
PIPELINE  
RESERVE

30m 30m  
MTR RAILWAY  
PROTECTION BOUNDARY

EXISTING SUBMARINE SEWAGE  
OUTFALL PIPELINES  
TO BE DECOMMISSIONED  
(BY OTHERS)

TEMPORARY  
OPENING FOR  
MARINE ACCESS

SITE BOUNDARY

ANCHOR BUOY  
No. AB2

SEAWALL COPELINE

ANCHOR BUOY  
No. AB3

CENTRAL  
RECLAMATION  
PHASE 3

PROPOSED  
SILT CURTAIN  
(GENERAL TYPE)

HONG KONG  
EXH

ANCHOR BUOY  
No. AB1

EXISTING  
SEAWALL  
COPELINE

PROPOSED  
SILT CURTAIN  
(FRAME TYPE)

INSTALLED SILT CURTAIN  
BY HK/2009/01  
CONTRACTOR UNDER  
FEP-02/356/2009\*

ANCHOR BUOY  
No. AB4

INSTALLED SILT SCREEN  
BY HK/2009/01  
CONTRACTOR UNDER  
FEP-02/356/2009\*

FLEET  
ARCADE

WAN CHAI  
(WEST)  
SEWAGE  
SCREENING  
PLANT

EXISTING MTR TSUEN  
WAN LINE SOUTH  
VENTILATION BUILDING

EXISTING MTR SOUTH  
INTAKE STRUCTURE  
AND ASSOCIATED MTR  
PUMPING FACILITIES

LEGEND:

- RANGE OF DEPLOYMENT OF  
FRAME TYPE SILT CURTAIN  
(DREDGING AREA)
- SILT SCREEN
- REMAIN UPON REMOVAL BY  
HK/2009/01 CONTRACTOR.  
REINSTALL IMMEDIATELY BY  
HK/2010/06 CONTRACTOR.

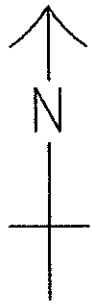
| Rev | Description     | Date      | Dgn  | Chk  | App  |
|-----|-----------------|-----------|------|------|------|
| C   | GENERAL REVISED | 29MAR2011 | S.L. | J.Y. | H.Y. |
| B   | GENERAL REVISED | 21MAR2011 | S.L. | J.Y. | H.Y. |
| A   | GENERAL REVISED | 16MAR2011 | S.L. | J.Y. | H.Y. |
| -   | -               | 03MAR2011 | S.L. | J.Y. | H.Y. |

**WAN CHAI DEVELOPMENT PHASE II**  
WAN CHAI DEVELOPMENT PHASE II -  
CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE

Contractor  
 金門 - 利達聯營 利 LEADER

Drawing Title  
LOCATION PLAN FOR DEPLOYMENT  
OF SILT CURTAIN AND SILT SCREEN  
FOR DREDGING WORKS (STAGE 1)

|          |      |             |                |
|----------|------|-------------|----------------|
| Drawn    | S.L. | Scale       | 1:1500 @ A3    |
| Designed |      | Status      | FOR SUBMISSION |
| Checked  | J.Y. |             |                |
| Approved | H.Y. | Drawing No. | TWK/SK/M051    |
| CAD Ref  |      | Rev         | C              |



VICTORIA HARBOUR

2 NOS. OF 1000 DN SUBMARINE PIPELINE

EXISTING TSUEN WAN LINE TUNNEL

50m PIPELINE RESERVE 50m PIPELINE RESERVE

SUBMARINE PIPELINE RESERVE

EXISTING SUBMARINE SEWAGE OUTFALL PIPELINES TO BE DECOMMISSIONED (BY OTHERS)

TEMPORARY OPENING FOR MARINE ACCESS

30m 30m  
MTR RAILWAY PROTECTION BOUNDARY

ANCHOR BUOY No. AB7

SITE BOUNDARY

ANCHOR BUOY No. AB6

SEAWALL COPELINE

HONG KONG EXH

CENTRAL RECLAMATION PHASE 3

ANCHOR BUOY No. AB5

PROPOSED SILT CURTAIN (GENERAL TYPE)

PROPOSED SILT CURTAIN (FRAME TYPE)

ANCHOR BUOY No. AB8

INSTALLED SILT CURTAIN BY HK/2009/01 CONTRACTOR UNDER FEP-02/356/2009\*

EXISTING SEAWALL COPELINE

HKKEC WEST BRIDGE

INSTALLED SILT SCREEN BY HK/2009/01 CONTRACTOR UNDER FEP-02/356/2009\*

FLEET ARCADE

WAN CHAI (WEST) SEWAGE SCREENING PLANT

EXISTING MTR TSUEN WAN LINE SOUTH VENTILATION BUILDING

EXISTING MTR SOUTH INTAKE STRUCTURE AND ASSOCIATED MTR PUMPING FACILITIES

LEGEND:



RANGE OF DEPLOYMENT OF FRAME TYPE SILT CURTAIN (DREDGING AREA)



SILT SCREEN

\*

REMAIN UPON REMOVAL BY HK/2009/01 CONTRACTOR. REINSTALL IMMEDIATELY BY HK/2010/06 CONTRACTOR.

|     |                 |           |      |      |      |
|-----|-----------------|-----------|------|------|------|
| B   | GENERAL REVISED | 29MAR2011 | S.L. | J.Y. | H.Y. |
| A   | GENERAL REVISED | 21MAR2011 | S.L. | J.Y. | H.Y. |
| -   | -               | 16MAR2011 | S.L. | J.Y. | H.Y. |
| Rev | Description     | Date      | Dgn  | Chk  | App  |

WAN CHAI DEVELOPMENT PHASE II

WAN CHAI DEVELOPMENT PHASE II - CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE

Contractor



Drawing Title

LOCATION PLAN FOR DEPLOYMENT OF SILT CURTAIN AND SILT SCREEN FOR DREDGING WORKS (STAGE 2)

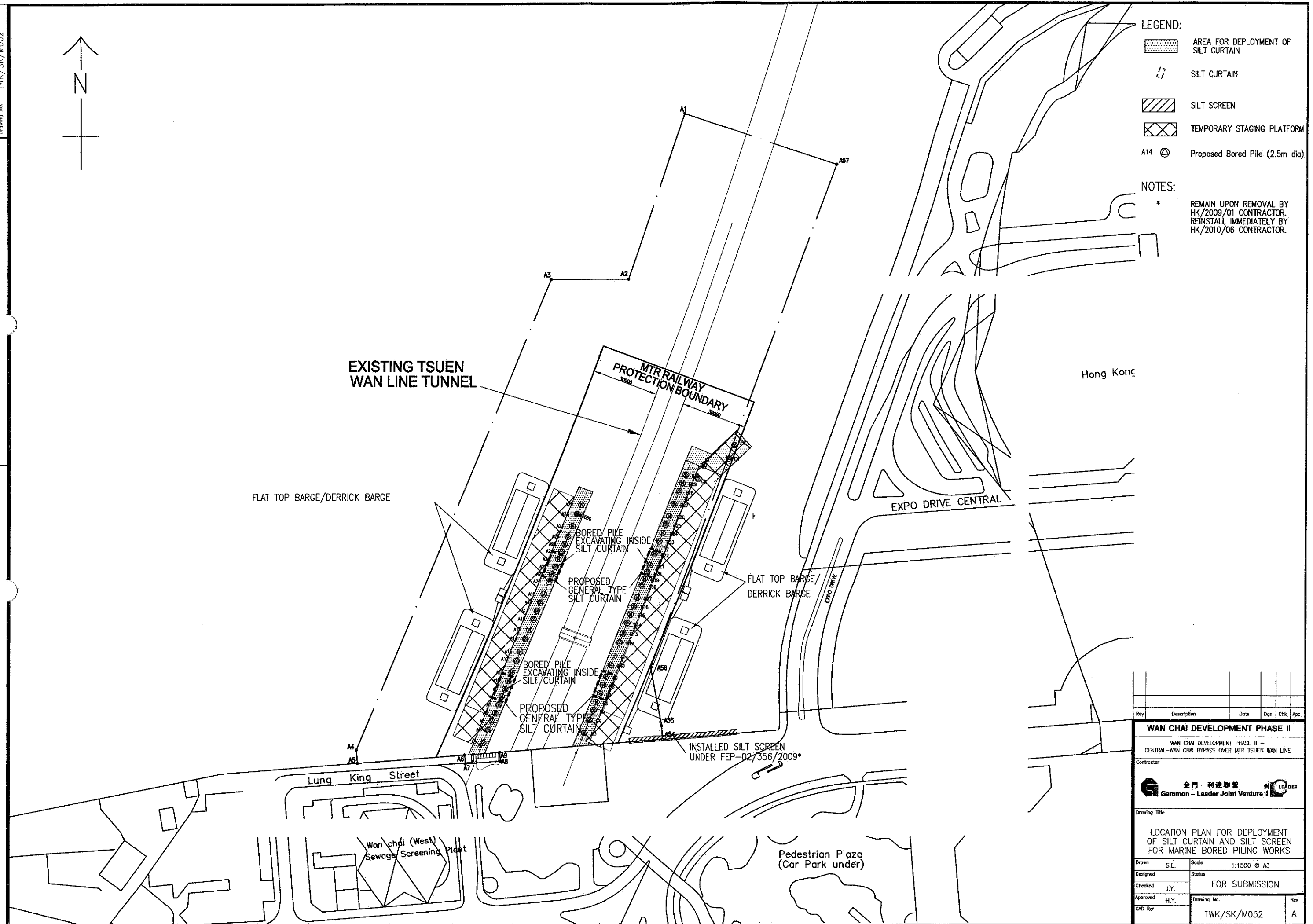
|          |      |             |                |
|----------|------|-------------|----------------|
| Drawn    | S.L. | Scale       | 1:1500 @ A3    |
| Designed |      | Status      | FOR SUBMISSION |
| Checked  | J.Y. |             |                |
| Approved | H.Y. | Drawing No. | TWK/SK/M072    |
| CAD Ref  |      | Rev         | B              |



- LEGEND:**
- AREA FOR DEPLOYMENT OF SILT CURTAIN
  - SILT CURTAIN
  - SILT SCREEN
  - TEMPORARY STAGING PLATFORM
  - A14 Proposed Bored Pile (2.5m dia)

**NOTES:**

- \* REMAIN UPON REMOVAL BY HK/2009/01 CONTRACTOR. REINSTALL IMMEDIATELY BY HK/2010/06 CONTRACTOR.



| Rev  | Description | Date     | Dgn            | Chk         | App |
|--|-------------|----------|----------------|-------------|-----|
| <b>WAN CHAI DEVELOPMENT PHASE II</b>   |             |          |                |             |     |
| WAN CHAI DEVELOPMENT PHASE II -<br>CENTRAL-WAN CHAI BYPASS OVER MTR TSUEN WAN LINE               |             |          |                |             |     |
| Contractor   |             |          |                |             |     |
|  |             |          |                |             |     |
| Drawing Title  |             |          |                |             |     |
| LOCATION PLAN FOR DEPLOYMENT<br>OF SILT CURTAIN AND SILT SCREEN<br>FOR MARINE BORED PILING WORKS |             |          |                |             |     |
| Drawn  | S.L.        | Scale    | 1:1500 @ A3    |             |     |
| Designed   |             | Status   | FOR SUBMISSION |             |     |
| Checked  | J.Y.        | Approved | H.Y.           | Drawing No. | Rev |
| CAD Ref  |             |          |                | TWK/SK/M052 | A   |

**Appendix B**  
**Material Catalogue of Silt Curtain**

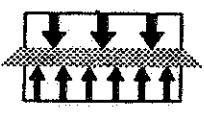

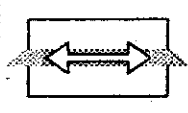
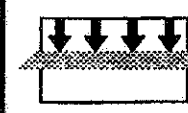

## SG 110/110

Woven polypropylene geotextile made of slit film tapes











Technical data sheet according to internal specifications Bonar TF: version 06 dd. 05/01/10  
Accompanying documents CE marking: version 04 dd. 05/01/10



1137-CPD-615  
10

|   |   |   |  |   |
|---|---|---|--|---|
|  |  |  |  |  |
| separation  | filtration  | reinforcement   | protection   | drainage  |

|  | test method   | value                   | tolerance                |
|--|---|-------------------------|--------------------------|
| <b>Mechanical properties</b>               |   |                         |                          |
| Tensile strength MD                        | EN ISO 10319  | 110,0 kN/m              | -9,9 kN/m                |
| Tensile strength CD                        |   | 110,0 kN/m              | -9,9 kN/m                |
| Elongation MD                              | EN ISO 10319  | 12,0 %                  | +/-2,8 %                 |
| Elongation CD                              |   | 8,0 %                   | +/-1,8 %                 |
| Static puncture resistance – CBR           | EN ISO 12236  | 12,50 kN                | -2,50 kN                 |
| Dynamic perforation resistance – cone drop | EN ISO 13433  | 10,0 mm                 | +2,0 mm                  |
| <b>Hydraulic properties</b>                |   |                         |                          |
| Water permeability normal to the plane     | EN ISO 11058  | 25x10 <sup>-3</sup> m/s | -8x10 <sup>-3</sup> m/s  |
| Water flow normal to the plane (*)         |   | 25 l/m <sup>2</sup> .s  | -8 l/m <sup>2</sup> .s   |
| Characteristic opening size (AOS)          | EN ISO 12956  | 230,0 µm                | +/-69,0 µm               |
| <b>Physical properties</b>                 |   |                         |                          |
| Thickness under 2 kPa (*)                  | EN ISO 9863-1   | 1,53 mm                 | +/-0,31 mm               |
| Weight (*)                                 | EN ISO 9864   | 464,0 g/m <sup>2</sup>  | +/-46,4 g/m <sup>2</sup> |
| Composition                                | 100 % polypropylene woven geotextile  |                         |                          |
| Durability                                 | predicted to be durable for a minimum of 25 years in natural soil with 4 < pH < 9 and soil temperatures < 25° C |                         |                          |

|   |   |   |  |   |
|---|---|---|--|---|
|  |  |  |  |  |
| roads   | railways  | foundations & retaining walls   | drainage systems   | erosion control systems   |
| EN 13249:2000   | EN 13250:2000   | EN 13251:2000   | EN 13252:2000  | EN 13253:2000   |
|  |  |  |  |  |
| reservoirs & dams   | canals  | Tunnels & underground structures  | solid waste  | liquid waste  |
| EN 13254:2000   | EN 13255:2000   | EN 13256:2000   | EN 13257:2000  | EN 13265:2000   |

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



## **G AND E COMPANY LIMITED**

Room B, 13/F Cheung Lee Industrial Bldg.  
9 Cheung Lee Street  
Chai Wan, Hong Kong  
Tel: 2508 0058

Fax: 2570 0089

website: [www.g-and-e.com](http://www.g-and-e.com)

July 9, 2010

### **OFFICIAL ANNOUNCEMENT**

I would like to inform you that geotextile Bontec SG100/100 is upgraded to SG110/110 effective immediately, and that SG100/100 has become obsolete. The performance of SG110/110 is superior to that of SG100/100.

No adjustment and adaptation are necessary to the current application, installation method, packaging and quality control assurance program with the improved properties of SG110/110.

Bonar Technical Fabrics is Europe's premier manufacturer of woven and non-woven geotextile products, with continuous commitment to quality, product development and production improvement. One of Bonar's many advantages is that they are vertically integrated. This means they have their own fiber production which helps ensure consistent product performance. Bonar also has a high production capacity with the facility located in close proximity to the Antwerp port. These translate into more efficient supply.

I have attached the manufacturer's letter here about the change for your reference. We would be happy to answer any questions that you may have.

Thank you for your kind attention.

Best regards

*Gary Ng*

Gary Ng  
General Manager



# bontec

a bonar technical fabrics product

---

|   |  |
|---|--|
| <b>Date: 5-Jul-10</b>                     |  |
| <b>To: G and E – Hong Kong<br/>Gary</b>   | <b>From: Isabelle Ruyffelaere – 0032 52 457 487<br/>Philippe Grimmelprez – 0032 52 457 486</b> |
| <b>E mail: nannette@g-and-e.com</b>       | <b>Pages: 1 +</b>  |
| <b>Your reference: Bontec® SG 110/110</b> |  |
| <b>Our reference: G&amp;E07052010.doc</b> |  |

---

Dear Gary,

We are pleased to confirm that the old name of the Bontec® SG100/100 has been replaced with the Bontec® SG 110/110.

Bonar constantly strives to increase the performance of the products over time. Thanks to improved polymers, extrusion and weaving techniques we managed to produce stronger geotextiles with the same unit weight. Hydraulic characteristics were not affected either.

Bonar uses very strict -in house- and ISO 9001:2000 quality and ISO 14001 environmental standards (in annex) and is using electricity generated from 100 % renewable sources.

We send hereby the newest datasheet as well for your information.

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

Philippe Grimmelprez  
Global 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@bonar.tf.com

BONAR Yarns & Fabrics Ltd  
Mt. Saleader Street • Dundee DD2 7FU • United Kingdom  
Tel: +44 (0)1382 346102 • Fax: +44 (0)1382 202376  
E-mail: guld@bonaryarns.com



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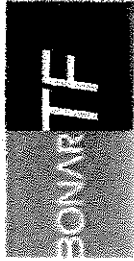
**Bontec SG110/110**  
**Woven Polypropylene Geotextile**

**Certification**

# QUALITY MANAGEMENT SYSTEM CERTIFICATE

## ISO 9001 : 2000

*The BQA, sa hereby declares that the quality management system of  
Bonar Technical Fabrics NV – Site in Zele en Lokeren*



*located at Industriestraat 39 - 9240 Zele - Belgium, has been examined on 05-05-2008  
and found in conformity with the ISO 9001, edition 2000, standard for the following application field:*

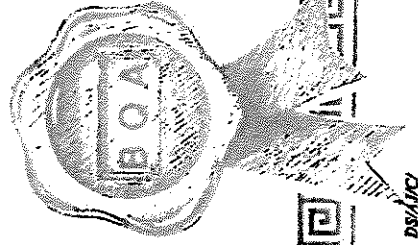
***Development, manufacture and sales of a standard range of fibres and textiles such as agrotexiles, building textiles and geosynthetics, as well as similar products especially designed to customer specifications***

*This certificate has been issued by the BQA, sa according to its quality manual concerning the certification of quality systems, and after concluding the contract of certification N° DS/AJ/CER/ 05-05-2008/301, under which the company accepts a regular control of its quality management system.*

Certificate N° BQA\_QMS019\_C\_2004301  
Valid until 04-05-2011



BQA N° 019-QMS



*D. SIMOENS  
Directeur*

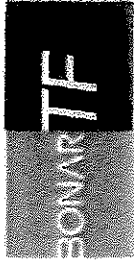
*Any person aware of intense of this certificate may address himself to the BQA, sa. This certificate may only be disclosed in its entirety.  
BQA, sa - rue Montoyer 24 (09) - 1000 Brussels.*

DS/AJC

# CERTIFICATE OF ENVIRONMENTAL MANAGEMENT SYSTEM

## ISO 14001 : 2004

The BQA, nv hereby declares that the environmental management system of the company  
Bonar Technical Fabrics NV - Site in Zele en Lokeren

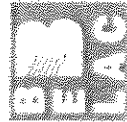


located at Industriestraat 39 - 9240 Zele - Belgium, has been examined on 05-05-2008  
and found in conformity with the ISO 14001, edition 2004, standard for the following application field:

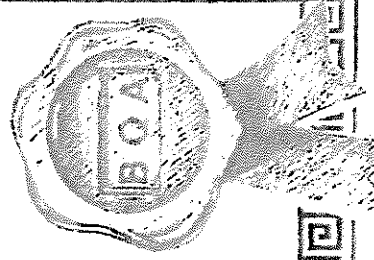
**Development, manufacture and sales of a standard range of fibres and textiles such as agrotextiles, building  
textiles and geosynthetics, as well as similar products especially designed to customer specifications.**

This certificate has been issued by BQA, nv according to its quality manual EMS concerning the certification of environmental  
management systems, and after the contract of certification N° DSAJ/CER-EMS/05-05-2008/84  
under which the company accepts a regular control of its environmental management system.

Certificate N° BQA\_EMS019\_C\_200484  
Valid until 04-05-2011



BQA N° 019-EMS



D. SIMOENS  
Directeur

Any person owning or holding this certificate may address himself to the BQA, nv. This certificate may only be disclosed in its entirety.

BQA, nv - rue Montoyer 24 (08) - 1000 Brussels

DSAJ/CERT/07-2004

# bontec

a bonar technical fabrics product

woven and non woven geotextiles

Zek,05.10.09

## CERTIFICATION OF CONFORMANCE

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

Invoice F0918342

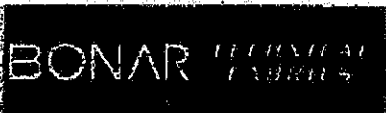
|                 |                                       |
|-----------------|---------------------------------------|
| Type            | NW 9 525 : 10500 m <sup>2</sup>       |
| Type            | NW 10 525 : 18375 m <sup>2</sup>      |
| Type            | NW 20 5250 : 10500 m <sup>2</sup>     |
| Type            | SG 100/100 : 5250 m <sup>2</sup>      |
| Delivery docs : | Packing list N. T0908524 and T0908557 |

Manufacturer : Bonar Technical Fabrics N.V.

BONAR TECHNICAL FABRICS N.V.



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



*invisible good*

BONAR TECHNICAL FABRICS nv/sa  
Industriestraat 39 • B-9240 Zek • Belgium  
Tel +32 (0) 52 457 493 • 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 346402 • Fax +44 (0) 1382 202378  
E-mail geotextiles@bonaryarns.com



# bontec

A Bonar technical fabrics product.

## Fax

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

### 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.

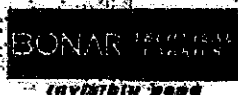
The plant where woven geotextiles are produced is based on the old UCO location: weverslaan 15, Lokeren, Belgium.

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 • 9240 Zele • Belgium  
Tel: +32 (0)52 457 471 • Fax: +32 (0)52 457 495  
E-mail: geotextiles@bonar.com

**BONAR Yarns & Fabrics Ltd.**  
St. Lawrence Street • Dover DE19 7BJ • United Kingdom  
Tel: +44 (0)1323 749100 • Fax: +44 (0)1323 261078  
E-mail: yarns@bonaryarns.com



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**Bontec SG110/110**  
**Woven Polypropylene Geotextile**

**Installation Guideline**

**BONTEC:** Woven and Non Woven Geotextiles manufactured by Bonar Technical Fabrics - Belgium.



### **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.

P.geodiversen/installationgeot.doc





**Bontec SG110/110**  
**Woven Polypropylene Geotextile**

**List of Project Reference**

## Bonar

| Date   | Project   | Client   | Consultant                                   | Style                  |
|--------|---|--|--|------------------------|
| Feb-05 | CV/2003/06<br>Stanley Waterfront Improvement Project - Construction Pier and Boardwalk                                | Sun Fook Kong (Civil) Ltd  | Civil Engineering and Development Department | SG100/100<br>NW10      |
| Feb-05 | 99/9028<br>Lamma Power Station  | Wai Kee (Zens) Construction & Transportation Co Ltd                                    | Maunsell Geotechnical Services Ltd           | SG100/100              |
| Feb-05 | CV/2004/02<br>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<br>Penny's Bay Reclamation Stage 2   | Gammon Skanska Ltd<br>Shun Tat Construction Engineering Ltd                            | Scott Wilson Ltd                             | SG100/100<br>SG100/100 |
| Apr-05 | HK/12/02<br>CED, Central Reclamation Phase III, Engineering Works   | Best Leader Engineering Ltd<br>Leighton - China State - Van Oord Joint Venture         | Atkins China Ltd                             | SG100/100<br>SG100/100 |
| May-05 | 03/8013<br>Lamma Island to Cyberport  | Leader Marine Contractors Ltd<br>Honwin Engineering Ltd                                | Maunsell Geotechnical Services Ltd           | SG100/100<br>SG100/100 |
| Jul-05 | Shenzhen to Tai Po Twin Submarine Gas Pipeline Project  | Honwin Engineering Ltd   |  | SG100/100              |
| Sep-05 | TP37/03<br>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<br>Stone Cutter's Bridge   | Hong Kong River Engineering Co Ltd   | Ove Arup & Partners HK Ltd                   | SG100/100              |
| Feb-06 | CV/2005/12<br>Fill Reception Facilities at Tseung Kwan O Area 137 Quarry Bay and Mui Wo                               | Penta-Ocean Construction Co Ltd  | Civil Engineering and Development Department | SG100/100              |
| Mar-06 | Maintenance Dredging at Castle Peak Power Station (CPPS) Jetty  | New Concepts Engineering Development Ltd   | Civil Engineering and Development Department | SG100/100              |
| Mar-06 | CV/2004/04<br>Maintenance and Repairs to Government / Public Piers and Immersed Tubes of Hung Hom Cross-Harbor Tunnel | China Harbour Engineering Co (Group)   | Civil Engineering and Development Department | SG100/100              |
| Mar-06 | HY/2005/06<br>Castle Peak Road Improvement West of Tsing Lung Tau   | Shun Tat Construction Engineering Limited<br>Chun Wo Construction & Engineering Co Ltd | Mouchel Halcrow JV                           | SG100/100<br>SG100/100 |

|        |   |   |  |                        |
|--------|---|---|--|------------------------|
| May-06 | 212<br>Main Works for the Proposed Third Golf Course Development at Kau Sai Chau, Sai Kung      | China Harbour Engineering Co (Group)  | Ove Arup & Partners HK Ltd                   | SG100/100              |
| Jun-06 | Hong Kong Convention and Exhibition Centre Project - Silt Screening for Intake Pipe             | Wai Kee (Zens) Construction & Transportation Co Ltd<br>Kaden - Wai Kee (C&T)<br>Joint Venture | NA   | SG100/100<br>SG100/100 |
| Aug-06 | EP/SP/52/06<br>Development of EcoPark in Tuen Mun Area 38                                       | Kaden Construction Limited  | Scott Wilson Ltd                             | SG100/100              |
| Sep-06 | CV/2004/06<br>Management and Capping of Contaminated Mud Pit IV at East of Sha Chau - Phase III | Kaden - Wai Kee (C&T) Joint Venture   | Civil Engineering and Development Department | SG100/100              |
| Oct-06 | Lamma Island Cable Landing  | United Marine Co Ltd  | Hong Kong Electric Co Ltd                    | SG100/100              |
| Nov-06 | CV/2004/01<br>Maintenance and Repairs to Seawalls, Piers and Other Port Works                   | Kin Shing Construction Co Ltd   | Civil Engineering and Development Department | SG100/100              |
| Dec-06 | Private project   | Friendly Benefit Engineering Ltd  |  | SG100/100              |
| Feb-07 | Prebored Socketted H-Piles at Hong Kong Convention & Exhibition Centre                          | Yee Hop Engineering Co Ltd  | NA   | SG100/100              |
| May-07 | HY/2005/06<br>Castle Peak Road Improvement - West of Tsing Lung Tau                             | Chun Wo Construction & Engineering Co Ltd   | Mouchel Halcrow JV                           | SG100/100              |
| May-07 | CV/2004/05<br>Dredging Maintenance  | China Harbour Engineering Co Ltd  | Civil Engineering and Development Department | SG100/100              |
| Aug-07 | Dredging Project in Lai Chi Kok Shipyard  | Maritime Mechanic Ltd   | NA   | SG100/100              |
| Aug-07 | 6/WSD/06<br>Construction of Salt Water Supply System for Penny's Bay                            | Univic Engineering Ltd  | Water Supplies Department                    | SG100/100              |
| Nov-07 | Permanent Aviation Fuel Facility Hong Kong International Airport (Contract No. H2104)           | UDL Dredging Ltd  | Babtie Asia Ltd                              | SG100/100              |
| Dec-07 | Seawall Modify, Tuen Mun Area 38  | Cheer Engineering Ltd   | Scott Wilson Ltd                             | SG100/100              |
| May-08 | DC/2007/10<br>Design and Construction of HK West Drainage Tunnel                                | Tapbo Civil Engineering Co Ltd  | Ove Arup & Partners HK Ltd                   | SG100/100              |
| Sep-08 | CV/2006/05<br>Maintenance of Seawalls and Navigation Channels                                   | China Harbour Engineering Co Ltd  | Civil Engineering and Development Department | SG100/100              |

|        |   |   |                               |                      |
|--------|---|---|-------------------------------|----------------------|
| Sep-08 | Marine Works at Maldives  | Kwan Sing Engineering & Construction Co Ltd |                               | SG100/100            |
| Nov-08 | DC/2007/06<br>River Improvement Works in Upper Lam Tsuen River, She Shan River and Upper Tai Po River | Kwan Lee Construction Co Ltd                | Maunsell Consultants Asia Ltd | SG100/100            |
| Mar-09 | DC/2007/01<br>Drainage Improvement Works in Ki Lun Tsuen, Kwu Tung, Ma Tso Lung and Sha Ling          | Shanghai Urban Construction Group Corp      | Mott Connell Ltd              | SG100/100<br>SG40/40 |
| Jun-09 | CHEC247<br>Lamma Power Station - Navigation Channel Improvement                                       | China Harbour Engineering Co Ltd            |                               | SG100/100            |

Updated November 26, 2009



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**Bontec SG110/110**  
**Woven Polypropylene Geotextile**

**Photo References**



## **G AND E COMPANY LIMITED**

Room B, 13/F Cheung Lee Industrial Building

9 Cheung Lee Street,

Chai Wan, Hong Kong

Tel: 852-2508 0058 Fax: 852-2570 0089

website: [www.g-and-e.com](http://www.g-and-e.com)



|                        |  |
|------------------------|--|
| <b>Date</b>            | Feb-10   |
| <b>Project</b>         | Contract No. HY/2009/11<br>Central - Wanchai Bypass - North<br>Point Reclamation |
| <b>Client</b>          | Highways Department  |
| <b>Consultant</b>      | AECOM  |
| <b>Main Contractor</b> | China Harbour Engineering Company  |
| <b>Works</b>           | Silt Curtain   |
| <b>Materials</b>       | Woven Geotextile SG100/100   |
| <b>Size</b>            | 3,675 sqm  |



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**Bontec SG110/110  
Woven Polypropylene Geotextile**

**Approval Letters**

土木工程拓展署  
**CEDD Civil Engineering and Development Department**

RECEIVED  
 2005 JAN 24

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 5737  
 Facsimile 傳真 : (852) 2714 2054  
 Our reference 本署檔號 : ( ) in PW WC/CV/0402/R20/340 PL1  
 Your reference 來函編號 : 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 Chan - 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 Fiers

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. | Item     | Quantity | Copy | Remarks |
|--------------|----------|----------|------|---------|
| CV/2004/02   | CM       | 1        |      |         |
|              | DM       | 2        |      |         |
|              | EM       | 1        |      |         |
|              | FM       | 1        |      |         |
|              | GM       | 1        |      |         |
|              | HM       | 1        |      |         |
|              | IM       | 1        |      |         |
|              | JM       | 1        |      |         |
|              | KM       | 1        |      |         |
|              | LM       | 1        |      |         |
|              | MM       | 1        |      |         |
|              | Material | 1        |      |         |
| Stamp        |          |          |      |         |

Yours faithfully,



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

c.c.  
 S10W/P2B - Site Copy

etc



土木工程拓展署  
**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 5055  
 Facsimile 傳真 : (852) 2714 2054  
 Our reference 本署編號 : (15) in PW WC/CV0306/R20046 P.01  
 Your reference 來函編號 : CV0306/1.2/1W/SY/CC/mc(S0067),  
 CV-000001/1.2/1W/SY/CC/mc(S0118)

土木工程處  
 Civil Engineering Office

112

香港九龍公主道 101 號  
 土木工程拓展署大樓 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: SIOW/PIA)  
 CEG/PIA

File PW WC/CV0306/M10/00

YK044/m

|                   |                 |         |               |
|-------------------|-----------------|---------|---------------|
| Post-Net Fax Note | 7671            | Date    | 24/2/05       |
| To                | MR. STANLEY WAN | From    | CHANG SZE-TAO |
| On/By             | GSE             | On      | SFK           |
| Phone #           | 2508 0028       | Phone # | 6841 702      |
| Fax #             | 2570 0089       | 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                        | ADVIS | INFORM |
| SA                          |       | 11/2   |
| DBA                         |       |        |
| GE                          |       |        |
| BMS                         |       |        |
| SUR                         |       |        |
| FOREMAN                     |       |        |
|                             |       |        |
| FILE                        |       | 11/2   |

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 Cui*  
 Luke Cui  
 Engineer's Representative

LC/TY/ak

*11/2*  
*11/2*  
*11/2*

*11/2*

**Maunsell Consultants Asia Ltd**  
 8/F Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road Shatin, N.T., Hong Kong  
 茂盛(亞洲)工程顧問有限公司  
 香港新界沙田鄉事會路 138 號新城市中央廣場第 2 座 8 樓  
 T +852 2605 8262 F +852 2691 2642 www.maunsell.aecm.com  
 SRE's Office T +852 2669 0708 F +852 2631 2889 E sre@triv.com.hk

Your Ref. : DC0706/M1.2/1512 & 1529  
 Our Ref. : (DC/2007/06)/R20/106(0023)

RECEIVED  
 13 NOV 2008

Chiu Hing Construction & Transportation Co. Ltd.  
 Room 201, 2/F Fuk Shing Commercial Building  
 28 On Lok Mun Street  
 On Lok Tsuen, Fanling  
 New Territories, Hong Kong

BY: .....

Attn: Mr. Roger Lau (Site Agent)

13 November 2008

Dear Sir,

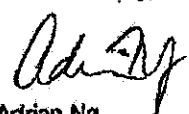
**Contract No. DC/2007/06**  
**River Improvement Works in Upper Lam Tsuen River,**  
**She Shan River and Upper Tai Po River**

**Proposed Geotextile at Gabion Wall in She Shan River and Upper Tai Po River**

I refer to your letter dated 7 November 2008 and 12 November 2008 respectively.

Please be advised that since the water flow rate of the proposed geotextile model Bontec SG100/100 meets the requirements in accordance with P.S. Clause 7.150, I have no further objections to your proposed use of woven geotextile model Bontec SG100/100, supplied by "G and E Company Ltd." at gabion wall in She Shan River and Tai Po River, subject to its satisfactory performance on site.

Yours faithfully,

  
 Adrian Ng  
 Resident Engineer

cc MCAL - Attn : Mr. Conder Yan  
 Chiu Hing H.O.

AN/CRok