

Wan Chai Development Phase II

Central – Wan Chai Bypass at Wan Chai East <u>Response to Comments Using the Same Nomenclature</u> Incoming ref.: (5) in EP2/H4/S3/15Pt.46 dated 25 April 2018

ltem	EPD's Comment	CWCRGLJV's Response
Techr	nical Comment	
1	Besides preventing sediments from dispersing out of the	There is no shoreline seawater intakes (already constructed/will be
	working areas, please clarify if there are any shoreline	constructed) within the working area during the marine works period.
	seawater intakes (already constructed/will be constructed)	
	within the working area during the marine works period, and if	
	any protection will be in place, as appropriate.	
2	S3.1, Stage 1 – Does the "Appendix E" mentioned here refer to	No, therefore the reference is deleted.
	the Appendix E in the current revision N? If not, please revise.	
	Also will such precautionary measures of moving/deploying the	Same precautionary measures of moving/deploying the silt curtain for
	silt curtain be required for stages 5 and 6 as well? Please	stage 5 and 6 will be adopted. Minimum disturbance will be made to
	elaborate, and supplement in the text as appropriate.	seabed, please also note that all marine sediment has been dredged and
		replaced by coarser material at time of carrying of temporary
		reclamation.
3	S3.5	
a.	Please elaborate if diver checking is needed after installation	A diving inspection on the connections between the silt curtains will be
	before starting of marine works, to ensure the underwater	carried out prior to marine works.
	section is installed properly. If so, please supplement in S3.5	A diving inspection checklist is enclosed in Appendix D for your
	and a diver checklist.	reference.
b.	Please also supplement a paragraph for actions before and	Noted, please find our response as follow:-
	after adverse weather and typhoon signals.	1. If typhoon signals T3 or above is anticipated to be hoisted, all



ltem	EPD's Comment	CWCRGLJV's Response
		marine plants and vessels will be demobilized from site area, the silt
		curtain will remain deployed.
		2. Upon cancellation of typhoon signal or typhoon signal is below T3,
		diving inspection will be carried out to ensure the integrity the silt
		curtain. A sample of diving inspection checklist is enclosed in
		Appendix D in this deployment plan.
Textu	al	
1.	S3.4 - Please clarify if "T6" and "T7" refer to no. 6 and 7	Yes "T6" and "T7" refer to seawall blockwork wall Type 6 and Type 7
	blockwork walls of Appendix A (near the Western boundary of	shown in Appendix A respectively.
	P.9 and 10 of the PDF). If so, please supplement this briefly in	
	the text S3.4 and make reference to Appendix A for readers, as	The section 3.4 is also updated to reflect the actual works.
	T6 and T7 were not found anywhere else in the Deployment	
	Plan.	
2	Appendix C, P.16 & P. 17 of the PDF – The headers of the two	Noted.
	pages are "Appendix". Please revise/remove them as it is a bit	
	confused that the section should be Appendix C.	



Lam Geotechnics Limited

Ground Investigation & Instrumentation Professionals

Ref : G1525/CS/L715/CW-CRGLJV Date : 23 May 2018

Chun Wo - CRGL Joint Venture

5C, Hong Kong Spinners Industrial Building, Phase 1 601- 603 Tai Nan West Street Cheung Sha Wan Kowloon

Attn: Mr. Paul Yu, Site Agent

Dear Sir,

Contract No. HK/2009/02 Wanchai Development Phase II – Central –Wan Chai Bypass at Wan Chai East <u>Silt Curtain Deployment Plan (Rev. O)</u>

Referring to the captioned submission dated 17 May 2018 received through email on 23 May 2018, we have reviewed your submitted details and hereby certified this submission in accordance with Condition 2.8 of FEP-03/356/2009.

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

Yours faithfully,

Raymond Dai Environmental Team Leader

<u>C.C.</u>

CEDD	- Mr. Henry Tsang	(By Fax: 2301 1277)
AECOM RAMBOLL	- Ms. Gloria Tang - Mr. David Yeung	(By Fax: 2587 1877) (By Fax: 3565 2899)
		(b) 1 dx. 0000 2099)







華益

土力有限公司



Ref.: AACWBIECEM00_0_10434L.18

23 May 2018

By Post and Email

Chun Wo – CRGL Joint Venture 5C, Hong Kong Spinners Industrial Building, Phase 1 601 – 603 Tai Nan West Street Cheung Shan Wan Kowloon

Attention: Mr. Paul Yu, Site Agent

Dear Sir,

Re: FEP-03/356/2009 Contract No. HK/2009/02 Wan Chai Development Phase II - Central-Wan Chai Bypass at Wan Chai East

<u>Silt Curtain Deployment Plan (Revision O)</u>

Reference is made to the captioned submission dated 17 May 2018 received through your email on 23 May 2018, please be informed that we have no adverse comment on the captioned submission in accordance with Condition 2.8 of FEP-03/356/2009.

Thank you for your attention and please do not hesitate to contact the undersigned should you have any queries.

Yours sincerely,

David Yeung Independent Environmental Checker

c.c.

CEDD LAM AECOM Attn: Mr. Henry Tsang Attn: Mr. Raymond Dai Attn: Mr. Gloria Tang by fax: 2577 5040 by fax: 2882 3331 by fax: 2587 1877

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Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

Silt Curtain Deployment Plan

<mark>0</mark>	<mark>17/05/18</mark>	Full Set of Submission	<mark>Ray Kwan</mark>	Hardy Lai
Ν	13/03/18	Full Set of Submission	Ray Kwan	Hardy Lai
М	23/11/12	Full Set of Submission	Jeff Chu	Garry Law
L	17/10/12	Full Set of Submission	Jeff Chu	Garry Law
K	02/05/12	Full Set of Submission	Jeff Chu	Garry Law
J	07/01/12	Full Set of Submission	Flora Ng	Garry Law
Ι	05/09/11	Full Set of Submission	Flora Ng	Garry Law
Η	01/02/11	Full Set of Submission	Horace Yau	Garry Law
G	19/01/11	Full Set of Submission	Horace Yau	Garry Law
F	05/01/11	Submission for Approval	Horace Yau	Garry Law
Е	29/09/10	Submission for Approval	Waffery Lau	P C Chan
D	24/09/10	Submission for Approval	Waffery Lau	P C Chan
С	08/06/10	Submission for Approval	Cecil Cheng	P C Chan
В	01/06/10	Submission for Approval	Cecil Cheng	P C Chan
А	22/03/10	Submission for Approval	Cecil Cheng	P C Chan
0	01/03/10	Submission for Approval	Cecil Cheng	P C Chan
Rev	Date	Status	Prepared By	Reviewed and Approved By Construction Manager



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Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

1.0 Introduction

The purpose of this deployment plan is to illustrate the general layout, the construction programme, details on the design, operation and maintenance of the silt curtains to be installed for the excavation and filling works of "Wan Chai Reclamation" as recommended in the approved EIA report (Registration No.:AEIAR-125/2008). Chun Wo – CRGL Joint Venture is responsible for the installation, operation, maintenance and removal of the silt curtain. The use of Genoia Silt Protector DSP15 (Tube Type) is a replacement material to previous submission for the outer layer silt curtain as recommended by the manufacturer. The Genoia Silt Protector DSP15 serves same function as previous model and it is widely used in silt control in other Projects as listed in Appendix C.

2.0 List of documentation to be referenced

2.1 Particular Specification, the relevant clauses and our remarks for the marine ground investigations is listed as follows for ease of references.

PS Clause No.	Relevant Remarks
PS Appendix 25.4	EP No. EP-356/2009 Clause 2.8 refers. The silt curtain
	deployment plan shall be certified by the ET Leader and
	verified by the IEC as conforming to the relevant
	information and recommendation contained in the approved
	EIA Report

3.0 General Layout of Silt Curtain (Hanging Type) by Stages

3.1 The deployment of Silt Curtain would be divided in to stages based on the locations of works and the working period, the details of the staging are as follow:-

Stage 1 (Completed):

The silt curtain shall be deployed in 2 modes. This 1st mode is designed for general marine works from 0700 to 2200 and the 2^{nd} mode is designed for the overnight dredging and rockfilling works from 2200 to 0600. The deployment of hanging type silt curtain in these 2 modes will be operated for 2 months from 17 September 2010 to 16 November 2010 as per CNP no. CW-RS0817-10. In the period of overnight dredging and rockfilling, the additional semi-circular geotextile will be deployed surrounding the silt screen frame installed at the intake ports of Wan Chai pumping station and Sun Hung Kai Centre. The precautionary measurement to prevent the disturbance of the existing marine sediment is that the lower part of the hanging type silt curtain would be lifted up by using the preset nylon ropes or strings. The part of the bottom of silt curtain would be lifted up by using the nylon rope with diameter of 25mm connected to the lifting hook of the derrick lighter. Once the bottom part of the silt curtain to be lifted to the top part of the silt curtain, the nodes would be made to tie the lifted up part of the curtain resulting in the silt curtain. After the completion of the action as aforesaid, the silt curtain in "bow tie shape" would be towed to the designated locations by using tug boat so that no disturbance of the ambient marine deposit happens in the course of towing. For minimization of disturbance of seabed sediment in the course of overnight dredging works, this framed silt curtain will be deployed down to the seabed during dredging operation and will be lifted in such manner that the disturbance of seabed marine deposit is minimized.



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Stage 2a (Completed):

Dredging to be carried out to remove marine deposits from existing seabed to reach the proposed dredging level within Zone A area. (approximate 15 days)

Stage 2b (Completed):

Dredging to be carried out to remove marine deposits from existing seabed to reach the proposed dredging level within Zone B area. (approximate 14 days)

Stage 2c (Completed):

Rock fill placing would be carried out at the dredged area to form a level platform upto -6mPD for the installation of temporary concrete blocks seawall upto +3.6mPD. Infill of public fill material will be placed upto -1mPD within the temporary sheetpile wall. Reclamation fill are then placed from dredged level up to proposed formation level at approximate +3.5mPD inside the WCR2. (approximate 123 days)

Stage 2d (Completed):

Dredging to be carried out to remove marine deposits from existing seabed to reach the proposed dredging level for the installation of Precast Caisson Seawall 2X. Rock fill placing would be carried out at the dredged area to form a level platform upto -6.65mPD for the installation of concrete seawall blocks up to -2.6mPD. (approximate 37 days)

Stage 3 (Completed):

Silt Curtain to be deployed for the reclamation works of WCR4 and TWCR4 for approximate 10 months, anticipated from April 2012 to January 2013.

Stage 4 (Completed):

Silt Curtain to be deployed for the reclamation works of WCR3 for approximate 11 months, anticipated from February 2014 to January 2015.

Stage 5:

Silt Curtain to be deployed for the construction of permanent seawall blocks near reclamation works of WCR4, the removal of temporary reclamation TWCR4, the reinstatement of seabed, removal of diaphragm wall, installation of permanent seawall block, filling work behind constructed permanent seawall. The silt curtains will be deployed for approximate 10 months, anticipated from March 2018 to December 2018.

Once the silt curtain is assembled on land, each span of silt curtain will be transported to the derrick lighter for storage and further joining. Different spans of silt curtain will be joined together by typing rope on the barge. The connected silt curtain will be temporarily tied up and racked. The silt curtain units with anchors will then be placed in the sea, divers will be deployed to cut the temporary typing ropes of silt curtain and allow the silt curtain hang in the sea.

When moving the silt curtain is required, the towing rope will be lifting the weight chain of silt curtain. The precautionary measurement to prevent the disturbance of the seabed by lifting up the lower part of type silt curtain would be lifted up using the



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> preset nylon ropes or strings prior to moving. The part of the bottom of silt curtain would be lifted up by using the nylon rope with diameter of 25mm connected to the lifting hook of the derrick lighter. Once the bottom part of the silt curtain to be lifted to the top part of the silt curtain, a node would be made tying both parts together. After the completion of the action as aforesaid, the silt curtain in "bow tie shape" would be towed to the designated locations by using tug boat so that no disturbance of the seabed happens in the course of towing. Joined span silt curtain will be pulled by a towing work boat slowly to the placement location.

Stage 6:

Silt Curtain will be deployed for modification of seawall Type 10 and 11 at Ex-PCWA Helipad. This modification includes construction of landing steps at Ex-PCWA Helipad. The silt curtains will last for approximate 5 months, anticipated from September 2018 to January 2019.

The method to deploy / relocate silt curtain in Stage 6 will be similar to the procedures stated in Stage 5.

- 3.2 The layout plans for deployment of silt curtains during stage 5 and stage 6 should refer to Appendix A. To suit the site condition and with reference to the tidal range, the silt curtain would be extended to as close to the seabed level as practicable.
- 3.3 The working procedure for installation and its technical data of silt curtain should refer to Appendix C.
- 3.4 In order to prevent muddy water from going out of the precast concrete block / caission, additional silt curtain is prepared on site. A single marine access point will be adopted for the outer layer silt curtain to minimize the chance of potential muddy dispersion during vessel movement into and out of the silt curtain enclosed area. In addition to the outer layer silt curtain, localized inner layer silt curtain / geotextile would be adopted to enclose the derrick lighter marine works area or cover exposed cut slope accordingly to maintain double layer silt curtain system throughout stage 5 to minimize potential silt dispersion
- 3.5 The maintenance procedure for silt curtain is as follow:
 - 1. Site supervisors should be responsible to inspect the condition of the silt curtain daily during the course of marine works. A visual inspection checklist will be prepared and filled in by site supervisors. All checklists should be kept on site for record purpose. A template of checklist is attached on Appendix D.
 - 2. If silt curtain is found to be damaged and repairing works are identified if necessary, all marine works at within 50m from the location of silt curtain would be temporary suspended. The silt curtain would be lifted up from sea by chain block pulley system, the whole/part of (depends on damaged condition) silt curtain would be replaced. In case of repairing damaged floats, temporary suspension of marine works should not imply.
 - 3. The suspended marine works as above-mentioned would only be resumed after satisfactorily repairing of the damaged silt curtain.



- 4. As a regular maintenance, refuse or debris around the silt curtain would be collected on daily basis to avoid adverse effect to marine plants as well as to the public.
- 5. Spare silt curtain sheets and the associated material would be stored on site to maintain for prompt replacement in case of any damages observed.
- 6. Prior to removal/opening of the silt curtain, site supervisor should closely monitor with the marine plant's operators to ensure no marine works should be carried out at within the silt curtain enclosure area.
- 7. Upon adverse weather and typhoon signals are foreseen, the following actions will be carried out before and after the weather:-
 - If typhoon signals T3 or above is anticipated to be hoisted, all marine plants and vessels will be demobilized from site area, the silt curtain will remain deployed.
 - Upon cancellation of typhoon signal or typhoon signal is below T3, diving inspection will be carried out to ensure the integrity the silt curtain. A sample of diving inspection checklist is enclosed in Appendix D in this deployment plan.



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4.0 Deployment Schedule

4.1 The deployment schedule of the silt curtain could refer to the table below. It is prepared based on the Initial Works Programme and may subject to changes to reflect the actual site progress:

Dhasing	Anticipated Inst	allation Works	Silt Curtain to be	Anticipated Removal by	Total Duration,
rnasing	From	То	Maintained until		uays
	(a)			(b)	= (b) $-$ (a)
Phase 1 (completed)	1 May, 2010	15 May, 2010	15 November, 2010	22 November, 2010	205
Phase 1a (completed)	8 February, 2011	31 March, 2011	31 March, 2011	31 March, 2011	51
Phase 2a (completed)	06 Mar 2012	21 Mar 2012	21 Mar 2012	21 Mar 2012	15
Phase 2b (completed)	22 Mar 2012	05 Apr 2012	05 Apr 2012	05 Apr 2012	14
Phase 2c (completed)	06 Apr 2012	07 Aug 2012	07 Aug 2012	07 Aug 2012	123
Phase 2d (completed)	29 Nov2012	8 Jan 2013	8 Jan 2013	8 Jan 2013	37
Phase 3 (completed)	15 August, 2012	31 Jan, 2013	31 January, 2013	31 January, 2013	169
Phase 4 (completed)	18 February, 2014	4 March, 2014	24 December, 2015	24 December, 2015	674
Phase 5	15 March, 2018	21 March, 2018	28 December, 2018	31 December 2018	289
Phase 6	28 September, 2018	13 October, 2018	28 January, 2019	31 January 2019	126



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7.1 Appendix A

Layout Plan for Silt Curtain Deployment at Phase 5 and 6







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7.2 Appendix B

Works Programme

CEDD CO	ONTRACT HK/2009/02															Page 1 of 1
ctivity ID	Activity Name	OD	RD	Start	Finish	Total	Calendar									
,						Float		2010	201	2012	2013	2014	2015	2016	2017	2018 2019
Three Month Rol	ing Programme 2018-03-06 (dd 03-March-18)															
Section 11 of the	Works - Remainder of Works															
Misc Works																
Removal of Tempor	any Reclamation CH 3710 to CH 3790 (East)															
S11-RTC-3120	Remove part of temporary redamation by barge (10.000 out of 32.000 m3 @ 800 m3/day)	20	20	03-Mar-18	24-Mar-18	-737	HK Working Day									Remove part of temporary
S11-RTC-3122	Remove part of the temp seawall to form marine entrance to temp reclamation zone (400 out of 886 nos. @ 30 nos /dav)	16	16	27-Feb-18	15-Mar-18	-737	HK Working Day			 						Remove part of the temp s
S11-RTC-3123	Installation of Breakwater as temporary protection to fill slope (340 nos. @ 2 nos./dav)	20	20	28-Feb-18	20-Mar-18	-737	HK Working Dav									Installation of Breakwater a
S11-RTC-3125	Remove remaining temporary reclamation by barge (22.000 out of 32,000 m3 @ 800 m3/day)	28	28	20-Mar-18	23-Apr-18	-668	HK Working Day									Remove remaining tempo
S11-RTC-3131	Complete removal of redamation on diaphragm wall	10	10	12-May-18	24-May-18	-635	HK Working Day									Complete removal of rec
S11-RTC-3133	Carry out echo sounding to dredged seabed level	3	3	24-May-18	28-May-18	-635	HK Working Day									Carry out echo sounding
S11-RTC-3140	Reinstate the permanent seawall at the interface with the Temporary D-Wall (North) (90 nos. @ 5 nos./day)	20	20	13-Sep-18	05-Oct-18	-737	HK Working Day									Reinstate the per
S11-RTC-3150	Reinstate the existing seawall (lower part in dry) at the east of Type 8 seawall (35 nos. @ 2 nos/day)	20	20	05-Oct-18	27-Oct-18	-353	HK Working Day									Reinstate the exist
S11-RTC-3150a	Reinstate the existing seawall (upper part & seawall coping after cutting temp D-wall) at the east (55 nos. @2 nos./day)	35	35	27-Oct-18	03-Dec-18	-353	HK Working Day									Reinstate the e
Removal of Tempor	ary Reclamation CH 3630 to CH 3710 (West)					1										
S11-RTC-3247	Remove remaining temporary reclamation from +4mPD to -6mPD by barge (22,000 m3@1000m3/day)	22	22	12-Feb-18	13-Mar-18	-152	HK Working Day									Remove remaining tempore
S11-RTC-3249	Remove soil behind existing seawall (5,000 m3@1000m3/day)	6	6	13-Mar-18	19-Mar-18	-152	HK Working Day									Remove soil behind existing
S11-RTC-3251	Remove 2 sections of existing seawall (320 nos.@30nos./day)	12	12	20-Mar-18	06-Apr-18	-152	HK Working Day									Remove 2 sections of exis
S11-RTC-3253	Remove remaining temporary seawall blocks by barge (486 of 886 nos.@30 nos./day)	17	17	07-Apr-18	25-Apr-18	-152	HK Working Day									Remove remaining tempo
S11-RTC-3255	Clean side of diaphragm wall	5	5	25-Apr-18	30-Apr-18	-152	HK Working Day									Clean side of diaphragm
S11-RTC-3395	Works within Temp D-Wall - Install Permanent Seawall Blocks in wet condition 521nos.@18 nos./d	33	33	13-Sep-18	22-Oct-18	-737	HK Working Day									📕 Works within Ten
S11-RTC-3400	Works within Temp D-Wall - Place Type A Rockfill and Filter from -3.0mPD to +1.5mPD	6	6	22-Oct-18	27-Oct-18	-737	HK Working Day									Works within Ten
S11-RTC-3410	Works within Temp D-Wall - Place Sorted Public Fill from -3.0mPD to+1.5mPD (10,300m3@1,000m3/d)	11	11	27-Oct-18	08-Nov-18	-737	HK Working Day									Works within Ter
S11-RTC-3418	Works within Temp D-Wall - Cut down temporary D-Wall (south) to +1.5mPD	6	6	08-Nov-18	14-Nov-18	-737	HK Working Day									Vorks within Ter
S11-RTC-3419	Works within Temp D-Wall - Place Sorted Public Fill from +1.5mPD to +4.20mPD (9,500m3@1,000m3/d)	10	10	14-Nov-18	24-Nov-18	-737	HK Working Day									Warks within Te
S11-RTC-3422	Place berm blocks (1500m2@50m2/day)	30	30	24-Nov-18	28-Dec-18	-375	HK Working Day									Place berm blo
S11-RTC-3442	Excavation and dredging between Temp Seawall & D-Wall to Temp Seawall (middle)	30	30	18-Apr-18	19-May-18	-737	HK Working Day									Excavation and dredging
S11-RTC-3443	Excavation and dredging between Temp Seawall & D-Wall to Temp Seawall (west side)	25	25	09-May-18	05-Jun-18	-737	HK Working Day									Excavation and dredgin
S11-RTC-3460	Remove western part of the Temp Seawall to form marine entrance to west side (486 nos. @ 40 nos./day)	13	13	05-Jun-18	19-Jun-18	-737	HK Working Day									Remove western part c
S11-RTC-3470	Remove remaining Temp Seawall by barges (486 nos. @ 30 nos./day)	19	19	20-Jun-18	10-Jul-18	-737	HK Working Day								+ $+$ $+$ $+$ $+$	Remove remaining Te
S11-RTC-3480	Remove all temporary reclamation (CH3630-Ch 3710) and carry out echo sounding to dredged seabed level	12	12	29-Jun-18	13-Jul-18	-368	HK Working Day									Remove all temporary
S11-RTC-3530	Works outside Temp D-Wall - Place rock mound to -6.0mPD(Grade 400: 8,000m3@750m3/d)	12	12	13-Jul-18	26-Jul-18	-368	HK Working Day									Works outside Temp
S11-RTC-3550	Works outside Temp D-Wall - Place Levelling Stone (1,200m2)	12	12	26-Jul-18	07-Aug-18	-368	HK Working Day									Works autside Temp
S11-RTC-3570	Works outside Temp D-Wall - Install Permanent Seawall Blocks outside D-wall (507 nos. @ 15nos./day)	40	40	13-Sep-18	27-Oct-18	-403	HK Working Day									📕 Works outside Te
S11-RTC-3580	Works outside Temp D-Wall - Construct the remaining part of Type 7 seawal	18	18	26-Sep-18	16-Oct-18	-361	HK Working Day									Works outside Te
S11-RTC-3590	Works outside Temp D-Wall - Place Rock fill and Geotexile behind Permanent Seawall Blocks	20	20	27-Oct-18	17-Nov-18	-379	HK Working Day									Works outside T
S11-RTC-3592	Works outside Temp D-Wall - Bulk Reclamation for remaining areas behind Permanent Seawall Blocks (4,865m3 @500m3/d)	10	10	17-Nov-18	28-Nov-18	-379	HK Working Day									Works outside
S11-RTC-3596	Removal of the sheet piles adjacent to the Type 7 seawall at the west side	6	6	26-Sep-18	03-Oct-18	-310	HK Working Day									Removal of the sh
S11-RTC-3600	Place Seawall Coping and complete reminaing reclamation	90	90	10-Sep-18	15-Dec-18	-365	HK Working Day		1 I I					1 1 1	+ $+$ $+$ $+$ $+$	Place Seawall
Removal of Tempor	ary D-Wall CH 3630 to CH 3710															
S11-RIC-3341b	Preparation for D-wal Cutting - Kemaining Coring Inside D wall (/2 nos for lifting, 3 machine@1no./machine/day)	24	24	23-Mar-18	21-Apr-18	-686	HK working Day			 						Preparation for D-Wall Cu Decremention for D-Wall Cu
S11-RIC-3342	Preparation for D-wal Cutting - Excavation within tunnel conferdiam for cutting holes (350m3 @ 100m3/day)	4	4	21-Apr-18	26-Apr-18	-686	HK Working Day									Preparation for D-Wall Cu
STI-KIC-3345	Preparation for D-wal Cutting - Advance Coring within tunnel conferdam (37 nos., 3 machines@1no./machine/day)	15	15	20-Apr-18	12-May-18	-086		-								Preparation for D-vVal C
S11-R1C-3348	rinny water insue whetham (2 pumps) Percenting DWal Correct underwater (37 post at 2 post (day)	20	2U 12	09-JUI-18	20-JUI-18	-131										Filling water inside co Percipica D Water
S11-RIC-3355	Cutting Temporary D Mall (19 untice) and 2 mechine (2 mechine (2 mechine (2 m))	13	10	20-JUI-18	11-Aug-18	-131										Remaining D-vval C
S11-RIC-3385	Cutting Temp D Wall (16 vehical cuts, 2 machines@ rout/machine/day)	10	10	11-Aug-18	22-Aug-18	-131		<u> </u>	······	 					· · · · · · · · · · · · · · · · · · ·	
S11-K1C-3394	Culling temp beveal (so nonzonial culls, 2 machines)@ rout/machine/day) to onginal seabed level	21	21	22-Aug-18	12-Sep-18	-131										Cutting temp D-Wa
311-110-3390		U	U	13-3ep-10	13-3ep-16	-131	HR WORKING Day					1 1 1				i removai or iemp t

 M C C C C C A 	ilestone ritical Milestones urrent Works ritical Works emaining Level of Effort ctual Level of Effort	CHUN WO - CRGL JOINT VENTURE	CEDD CONTRACT NO. HK/2009/02 WD II - Central Wanchai Bypass at Wan Chai East (Contract 2) REVISED WORKING PROGRAMME (Date Date on 03-Feb-18)	Date 30-Nov-17

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Revision	Checked	Approved

CEDD CONTRACT HK/2009/02

Activity ID	Activity Name	OD	RD	Start	Finish	Total	Calendar							
						Float		2010		2011	2012	2013	mhmi	2014
Three Month Roll	ng Programme 2018-03-06 (dd 03-March-18)													
Or other Ad of the l	Northe Demoinder of Marine													
Section 11 of the	vorks - Remainder of vvorks													
Misc. Works														
Landing Step at Ex-H	elipad													
S11-MIS-1000	Demolition of Existing Seawall for Proposed Landing Step at Ex-Helipad	6	6	13-Oct-18	22-Oct-18	-403	HK Working Day							
S11-MIS-1010	Construct Precast Concrete Blocks	27	27	14-Oct-18	10-Nov-18	-444	Calendar Day							
S11-MIS-1015	Construct Precast Concrete Step Units	80	80	15-Oct-18	03-Jan-19	-446	Calendar Day							
S11-MIS-1020	Check existing and relocate utilities, if necessary, at Ex-Helipad	4	4	18-Oct-18	23-Oct-18	-403	HK Working Day		11					
S11-MIS-1030	Removal of existing furnitures and road surface	4	4	23-Oct-18	26-Oct-18	-403	HK Working Day							
S11-MIS-1040	Excavate soil behind proposed landing areas (3,500m3 @ 300m3/day)	14	14	26-Oct-18	10-Nov-18	-403	HK Working Day		1.1				+ + +	1
S11-MIS-1050	Install new seawall blocks behind existing seawall (70nos. @10 nos./day)	7	7	10-Nov-18	17-Nov-18	-403	HK Working Day							
S11-MIS-1060	Bulk reclamation with sorted public fill at the back of new landing (3,000 m3@300m3/day)	12	12	17-Nov-18	29-Nov-18	-403	HK Working Day							
S11-MIS-1070	Remove existing seawall blocks	6	6	23-Nov-18	29-Nov-18	-403	HK Working Day							
S11-MIS-1080	Construct insitu RC concrete coping	30	30	30-Nov-18	03-Jan-19	-403	HK Working Day							
S11-MIS-1090	Install precast concrete step units	7	7	03-Jan-19	10-Jan-19	-403	HK Working Day							
S11-MIS-1092	Construct insitu concrete steps	15	15	07-Jan-19	22-Jan-19	-403	HK Working Day							
S11-MIS-1094	Install rubber fenders, 10-tonne bollards and railings	14	14	12-Jan-19	28-Jan-19	-403	HK Working Day		1.1				1 I I	- E - E - E
S11-MIS-1096	Completion of landing step at Ex-Helipad	0	0		28-Jan-19	-403	HK Working Day							
S11-MIS-1100	Rockfilling and Reinstate Removed Tie Beam	21	21	22-Oct-18	12-Nov-18	-354	HK Working Day							
S11-MIS-1200	Construct Coping and Landing Step Construction	21	21	12-Nov-18	04-Dec-18	-354	HK Working Day	1						

Milestone		CEDD CONTRACT NO. HK/2009/02	Date 30-Nov-17
 Critical Milestones 	CHUN WO - CRGL	WD II - Central Wanchai Bynass at Wan Chai Fast (Contract 2)	
Current Works		WD II - Gential Walicital Dypass at Wali Glai Last (Gontract 2)	-
Critical Works	JOINT VENTURE	REVISED WORKING PROGRAMME	
Remaining Level of Effort		(Date Date on 03-Feb-18)	
Actual Level of Effort			

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Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

7.3 Appendix C

Technical Details of the Silt Curtain

Part 1: Genoia Silt Protector DSP15

Structural Calculation Of Tube Type Silt Protectors HK/2009/02

February, 2018

Daeyoun

1. INTRODUCTION

The following structural calculation is to be made based on the "Method of installation of Silt Protectors".

2. DESIGN CONDITIONS

Conditions used for determining the specification are as shown in Table 1.

Item	Condition	Item	Condition
Wind Speed ; V	17m/s	Depth of water	7.3m
Current speed ; U	1m/s	Wave length ; L	6.94m
Significant wave height ; H1/3	0.3m	Significant wave period ; T	2.11s
High water level	+2.0mPD	Low water level	+0.5mPD

Table 1 Design Condition

Note 1) Depth uses M.W.L.(7.3m).

Note 2) Wave length were calculated as described below.

Wave _ period :
$$T = 3.86\sqrt{H}$$

Wave _ length : $L = \frac{gT^2}{2\pi} \tanh \frac{2\pi h}{L} \approx \frac{gT^2}{2\pi} \bullet 1$
(g: Gravity = 9.8 m/s²)

Table 2 Silt Protector installation conditions

Item	Condition	Item	Condition
Float diameter	Ø 0.5m	Inclination angle of anchor rope	30°
Width of silt protector	20m	Service period	6 months
Depth of silt protector	7m	Curtain weight	15.7Kg/m
Space between main anchors/blocks/ton bags	20m	Anchor wire rope	16mm dia

3. Summary of the examination base on above design conditions.

Item	Condition
Wire rope length (Lr)	19 m
Wire rope tension (fw)	>9305.44kg
Anchor	>1550.91kg
Tensile strength on fabric	(75.36 kN/m)
Float diameter (d)	0.5 m

Table 3 Summary

4. Material have to fulfill the requirement of project should be as follows.

ltem	Condition
Wire rope length (Lr)	19 m
Wire rope tension (fw)	16mm dia. (11.9
	ton) >9305.44kg
Any Anchor with weight over 1.55 ton.	>1550.91kg
Geonia Silt Protector DSP15	150 kN/m >
Tensile strength of DSP15	(75.36 kN/m)
DSP15 with Float diameter (d)	0.5 m

Note:

In case of abnormal weather such as typhoon that may produce external forces exceeding design conditions which can damage the units.



Daeyoun Geotech GEONIA Silt Protector

Product Catalogue of Daeyoun Geotech GEONIA Silt Protector

Geonia[®] is a registered trademark of DAEYOUN GEOTECH.



e develop geosynthetics, under the mission of protecting environment as well as human, and supplying highly efficient and cost-effective solutions to global clients.





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VIETNAM SALES OFFICE (HOCHIMINH) 41 le trung Nghia P12 Tan Binh district Hochiminh Vietnam Tel:+84-8-3811-2772 Fax:+84-8-3948-1920 E-mail:day0323@naver.com

JAPAN SALES OFFICE (TOKYO) Nakagawa BLDG., 4FL. 1-14-8, Nishishinbashi, Minato-ku, Tokyo, JAPAN 105-0003 Tel:+81-3-3507-9595 Fax:+81-3-5532-8624



Printed in Jun. 2015

Silt Protector





SILT PROTECTOR

PRODUCT

GEONIA[®] Silt Protector

GEONIA® Silt Protector is a silt fence installed in water for preventing spread of environmental contaminants induced by coastal and riverside construction.

Leakage of silt from marine and sewage constructions has a serious influence on marine resources and natural environment of surrounding regions.

GEONIA® Silt Protector is used to preserve the natural environment and protect marine resources. By blocking a specific water zone with a special membrane composed of high strength synthetic fiber, soil particles that occur in the area are filtered and precipitated to prevent leakage and spread of silt water.



| Application

- Protection of sea farming and swimming beach from nearby coastal construction
- Reclamation Protection
- Protection of revetment contamination
- Revetment of contaminant









The main function of the GEONIA[®] Silt Protector is to enclose turbidity and to minimize the influences on outside sensitive areas. Enclosed by Silt Protector, current velocity inside is much lower than outside velocity. This means the GEONIA® Silt Protector is accelerating sedimentation of silt by reducing the flow of velocity.



Function

The acceleration of the settlement of silt by interference of particles – The installation of GEONIA® Silt Protector suppresses the diffusion of the pollution and make the soil particles interfere with each other to accelerate their settlement.

The reduction of distance required to settle the silt – As shown, the installation of GEONIA® Silt Protectors narrows the settlement range, resulting in minimizing the diffusion of pollution after the unit.





GEONIA® SILT PROTECTOR

TYPES

Tube Type

High external force of tide, wave and wind.





· Float (Polyethylene)

· Reinforced Belt

Reinforced Belt

- Fabric

Chain

Durable Tube Type

High external force of tide, wave and wind + long resistance from the sunlight



A broken PVC coated fabric in a part of the float A durable fabric for the float using high tenacity

colored yarn

Durable Tube Type GEONIA® Silt Protector applies a durable fabric for the float device by using high tenacity colored yarn, which was improved to solve the problem of fault construction, poor visibility caused by a damaged PVC coated fabric, and marine pollution of a broken PVC coated fabric.

Covering Head Type

Less external force than tube type / easy to install





INSTALLATION



www.DYGEOTECH.com | 05





TON BAG ANCHOR

PRODUCT

SPECIFICATION

GEONIA® Ton Bag Anchor

The problem of the most commonly used concrete Anchor Block is that it is difficult to collect, a large area is required for assembly, dust scattering occurs and high payback leads to high expenses. In terms of environmental impact, the concretes exposure to the sea may adversely affect the ecosystem.

GEONIA® Ton Bag Anchor has the advantage of overcoming the limitations and high cost of the concrete anchor.



Rubble being added to GEONIA® Ton Bag Anchor















Webbing Loop

Propert Fabric Weight Fabric Tensile St Fabric Elongatio Fabric Permeabi Raw Material

Size

Comparison of Anchors

	Concrete Anchor	Ton Bag Anchor
Material	Concrete	Polypropylene
Recovery	Less than 50%	More than 90%
Production Area	A large area is required	A small area is required
Environmental	Generates dust scattering during production, adverse aquatic effects	Recyclable
Workability	Difficult to carry	Easy to handle

GEONIA® TON BAG ANCHOR is a perfect alternative, that overcomes all the problems of existing anchors in the economical, constructible and environmental aspects.



GEONIA® Ton Bag Anchor being installed

GEONIA[®] Silt Protector

Property	Unit	TEST METHOD	DSP 15	DSP 20	DSP 25	DSP 30
Fabric Unit Weight	g/m2	ASTM D 5261	450	650	750	900
Fabric Tensile Strength	kN/m	ASTM D 4595	150	200	250	300
Fabric Elongation	%	ASTM D 4595	20	20	25	25
Fabric Permeability	cm/s	ASTM D 4491	a X 10-2~-4 (a=1~9.9)			9)
Rate of Contraction	%	ISO 7771		±0	.2	
Material of Fabric		ASTM D 276	Polyester			
Float Diameter			30)0 mm ~	500 mm	

GEONIA® Ton Bag Anchor

y	Unit	Ton Bag Anchor	TEST METHOD
	g/m2	350	ASTM D 5261
rength	kN/m	100	ASTM D 4595
n	%	30	ASTM D 4595
ility	cm/sec	a X 10-2~-4 (a=1~9.9)	ASTM D 4491
		Polypropylene	ASTM D 276
	m	1.5 × 1.5 × 1.5 1.6 × 1.6 × 1.6 1.7 × 1.7 × 1.7	



Daeyoun Geotech GEONIA Silt Protector

Product Specification of GEONIA Silt Protector

SPECIFICATION

GEONIA® Silt Protector

Property	Unit	TEST METHOD	DSP 15	DSP 20	DSP 25	DSP 30
Fabric Unit Weight	g/m2	ASTM D 5261	450	650	750	900
Fabric Tensile Strength	kN/m	ASTM D 4595	150	200	250	300
Fabric Elongation	%	ASTM D 4595	20	20	25	25
Fabric Permeability	cm/s	ASTM D 4491	α X 10 ^{-2~-4} (α=1~9.9)			9]
Rate of Contraction	%	ISO 7771	± 0.2			
Material of Fabric		ASTM D 276		Poly	ester	
Float Diameter			Ċ	300 mm -	- 500 mm	٦







GEONIA® Ton Bag Anchor

Property	Unit	Ton Bag Anchor	TEST METHOD
Fabric Weight	g/m2	350	ASTM D 5261
Fabric Tensile Strength	kN/m	100	ASTM D 4595
Fabric Elongation	%	30	ASTM D 4595
Fabric Permeability	cm/sec	α X 10 ^{-2~-4} (α=1~9.9)	ASTM D 4491
Raw Material		Polypropylene	ASTM D 276
Size	m	1.5 X 1.5 X 1.5 1.6 X 1.6 X 1.6 1.7 X 1.7 X 1.7	



Daeyoun Geotech GEONIA Silt Protector

Certificate



CERTIFICATE OF QUALITY AND QUANTITY

2018-03-2

* PO NO: PO NO. 180301-01 DATED MAR.01,2018 PO NO. 180301-02 DATED MAR.01,2018

* APPLICANT: G AND E COMPANY LIMITED 14/F KIU YIN COMMERCIAL BUILDING 361-363 LOCKHART ROAD, WANCHAI, HONG KONG TEL: +852-2570 0103 FAX:+852-2570-0089 * MANUFACTURER: DAEYOUN GEOTECH CO., LTD 123, APOGONGDAN-GIL, APO-EUP, GIMCHEON-SI, GYEONGSANGBUK-DO, 39670, SOUTH KOREA. TEL: +82-2-539-9700 FAX: +82-2-539-9710 * SHIPPING DATE : 2018-03-09

* DESCRIPTION OF GOODS - GEONIA SILT PROTECTOR DSP30 SIZE: 20M (W) X 3M (D)/SPAN TYPE: TUBE TYPE (FLOAT INCLUSIVE) FLOAT SIZE: D500mm STEEL PLATE: UPGRADE STEEL PLATE BALLAST Chain: CHAIN: 5KG/M

- GEONIA SILT PROTECTOR DSP15 SIZE: 20M (W) X 7M (D)/SPAN TYPE: TUBE TYPE (FLOAT INCLUSIVE) FLOAT SIZE: D500mm STEEL PLATE: NORMAL STEEL PLATE BALLAST Chain: CHAIN: 5KG/M

<u>COMMODITY</u>	<u>NO. OF UNIT</u>	<u>N/WEIGHT(KGS)</u>	<u>G/WEIGHT(KGS)</u>
DSP 30	10 SPANS	3,100	3,150
DSP 15	13 SPANS	4,082	4,147

DSP30 TUBE TYPE	Q'TY/SPAN	TOTAL Q'TY	SPARE
19MM SHACKLE	4 EA	40 EA	0 EA
14MM SHACKLE	2 EA	20 EA	0 EA
PP ROPE	10 M	100 M	0 M



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 123, AP OGONG DAN-GIL, A PO-EUP, GIMCHEON-SI, GYEO NG SANGB UK-DO, SO UTH KOREA.

DSP15 TUBE TYPE	Q'TY/SPAN	TOTAL O'TY	SPARE
19MM SHACKLE	6 EA	78 EA	0 EA
14MM SHACKLE	2 EA	26 EA	0 EA
PP ROPE	14 M	200 M	0 M

WE GUARNTEE THAT THE ABOVE GOODS DELIVERED IN ACCORDANCE WITH THE CONTRACT WILL BE FREE FROM ANY DEFECT IN DESIGN AND MATERIALS THAT IT WILL WORK PROPERLY WITH HIGH PERFORMANCE.

> DAEYOUN GEOTECH CO.,LTD. PRESIDENT S.K. LEF



Certification of Registration

DAEYOUN GEOTECH CO., LTD.

Head Office : 11, Dangsan-ro 41-gil, Yeongdeungpo-gu, Seoul, Korea Factory : 123, Apogongdan-gil, Apo-eup, Gimcheon-si, Gyeongsangbuk-do, Korea

STANDARDS

ISO 9001 : 2008 / KS Q ISO 9001:2009

SCOPE OF SUPPLY

Manufacture and Servicing of Industrial Fabrics (PET Woven Geotextile, PP Woven Geotextile, Geocomposite, Base Cloth, Geotextiles & Geosynthetics), Twisted Yarns, Silt Protector & Sewing

ITS Certification Body certifies that Quality Management System of this organization is conforming to the standard and certificate scope.

Certificate Valid Date : 19-Apr-2016 30-Aug-2019

Certifcate No.: ITS-KO-00426

Date of Initial Approval :11-Oct-2010 Initial Certificate Expiry Date : 30-Aug-2016 Recertificate Issued Date : 13-Jul-2016



13-Jul-2016

by Joon Young Park President

INTELLIGENCE TECHNOLOGY STANDARD ASSURANCE

서울시 영등포구 63로 32 (여의도동 라이프콤비 B/D) 1302 Website: www.itscert.or.kr webmaster@itscert.or.kr



* KAB 마크는 한국인정원으로부터 품질/환경 인증기관으로 지정 (지정번호 : KAB-QC-46/KAB-EC-41)되었음을 나타내는 인정마크입니다. ★ IAF MLA 마크는 QMS/EMS에 대한 국제인정기관협력기구의 국제다자간상호 인정협정가입인정기관에 의한 인정마크입니다.



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Certification of Registration

DAEYOUN GEOTECH CO., LTD.

Head Office : 11, Dangsan-ro 41-gil, Yeongdeungpo-gu, Seoul, Korea Factory: 123, Apogongdan-gil, Apo-eup, Gimcheon-si, Gyeongsangbuk-do, Korea

STANDARDS

ISO 14001 : 2004 / KS I ISO 14001:2009

SCOPE OF SUPPLY

Manufacture and Servicing of Industrial Fabrics (PET Woven Geotextile, PP Woven Geotextile, Geocomposite, Base Cloth, Geotextiles & Geosynthetics), Twisted Yarns, Silt Protector & Sewing

ITS Certification Body certifies that Environment Management System of this organization is conforming to the standard and certificate scope.

Certificate Valid Date : 31-Aug-2016 30-Aug-2019

Certifcate No.: ITS-KE-00231

Date of Initial Approval : 11-Oct-2010 Initial Certificate Expiry Date : 30-Aug-2016 Recertificate Issued Date : 13-Jul-2016



13-Jul-2016

by Joon Young Park President

INTELLIGENCE TECHNOLOGY STANDARD ASSURANCE

서울시 영등포구 63로 32 (여의도동 라이프콤비 B/D) 1302 Website: www.itscert.or.kr webmaster@itscert.or.kr



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Version 1.0





Certification Body CE 1213 SKZ – TeConA GmbH Friedrich-Bergius-Ring 22 97076 Würzburg Germany

EC Certificate of Factory Production Control 1213–CPD–5431

In compliance with Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products (the Construction Products Directive or CPD), as later amended, it has been stated that the construction products

Geonia DM-10, Geonia DM-15, Geonia DM-20, Geonia DM-25, Geonia DML-10, Geonia DML-20, Geonia DML-30, Geonia DML-40

Geotextile, woven; Raw material: PET used for the function: S + R

placed on the market by

Daeyoun Geotech Co. Ltd.

#1121, Poonglim Bldg 404, Gongduch-dong Mapo-gu Seoul South Korea

and produced in the factory

Gyeongsangbuk-do

are submitted by the manufacturer to the initial type-testing of the products, a factory production control (FPC) and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body No. 1213 - SKZ – TeConA GmbH, Würzburg, Germany - has performed the initial inspection of the factory and of the FPC and performs the continuous surveillance, assessment and approval of the FPC.

This certificate attests that all provisions concerning the attestation of FPC described in Annex ZA of the standard

EN 13249:2000/A1:2005; EN 13250:2000/A1:2005; EN 13251:2000/A1:2005; EN 13257:2000/A1:2005

were applied.

This certificate was first issued on 2012-12-19 and remains valid as long as the conditions laid down in the harmonised standard in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly.



i \

Dipl.-Ing. Helmut Zanzinger Certification Body

Würzburg, 19 December 2012



Daeyoun Geotech GEONIA Silt Protector

Installation, Caution & Maintenance Guideline



Installation Caution Maintenance

2013. 12. 26


Basic Installation Guide





Installation Guide (Connecting curtain and curtain)





Installation Guide (Tempory tying curtains)





Installation Guide (Connecting Curtain and Anchor)





Caution

Designate a person who is in charge of management of the Silt Protector.

If an environment that exceeds the design conditions is estimated, remove the Silt Protector immediately, or the unit may be day if the Silt Protector requires a repair, take necessary actions soon. If it is left without being repaired, the function of the unit may be affected adversely or the damage may expand so that it cannot be repaired.

In casethe Silt Protector has been dislocated from the proper position or the layout has been deformed, restore it to original position or formation immediately. Otherwise, serious accident may be caused.

Be careful not to damage the float and curtain when removing sea shells and plants from these components. The float is made of Styrofoam which is inflammable . Keep fire away from this component.

Preconditions for maintenance

This Silt Protector has been designed based on the precondition that it must be removed in environmental conditions that exceed the design condition, Therefore, in case it was not removed in such condition, it must be inspected after such environmental condition has ended, and must be repaired as soon as possible if necessary.

Check the unit periodically, and any component that have been deteriorated due to aging must be repaired or replaced with ne

Table 1 presents the conditions on which this Silt Protector is designed.

Table 1 Design conditions

ltem	Condition	ltem	Condition
Speed of wind	m/second	Diameter float	m
Speed of current	m/second	Length of curtain	m
Wave Height	m/second	Serviceable life	months
Period of wave	Seconds	Range of tide	H.W.L + m
Wave length	m		L.W.Lm
Depth of water	m	Sediment	



Maintenance

Daily inspection

The Silt Protector should be visually monitored by patrol during the period it is placed in the water. The patrol is performed on the boat for the purpose of preventing ships from running against the unit and of finding abnormality in earlier phase. (once per day)

Caution: In case the Silt Protector has a serous trouble , Failure to do the daily check may cause serious trouble in addition to the loss of its normal pollution protection performance.

Peridodic inspection

In addition to visual inspection on the boat, periodicallty dive to check the unit thoroughly. (Once per every three month)

Caution: In case the Silt Protector has been damaged, failure to do the periodical check may cause the loss of its normal pollution peotection performance and a damage that cannot be repaired to occur.

Extra inspection

After typhoon or other abnormal weather, check the unit for the purpose of finding possible damages or troubles earlier. This check is performed basically on the boat, but dive to check the unit if necessary.

Caution: In case the Silt Protector has been seriously damaged, failure to do the extra check may cause the loss of its nomal pollution protection performance and a damage that cannot be repaired to occure.

Sea shell removal

If it is found that the freeboard of the float is less than 1/2 of its diameter due to increase of the total weight with the growth of sea shells and plants on the float and curtain, dive to clean these components. It is recommended to monitor the change of the freeboard of the float. check it at the periodical inspection, and record the growth of the sea organisms. (perform these works as necessary.)

Caution: Failure to do the cleaning may increase the weight of the Silt Protector resulting in sinking it to cause loss of the function. Be careful not to damage the Silt Protector when cleaning the unit.



Flow of maintenance works











1121 Poonglim VIPtel, 404 Gonduck-dong, Mapo-gu, Seoul, Korea TEL: 82-2-539-9700, FAX: 82-2-539-9710

2014-03-04

Project list of Silt Protector

We, Daeyoun Geotech, hereby certify that the following are our main project list in Vietnam.

Name of Project	Contract Amount (USD)	Month/Year	Span
NSRP Project	300,000	Sep. 2013	150 spans
Lach Huyen Project	100,000	Sep. 2013	100 spans
Total	400,000	-	250 spans

We, Daeyoun Geotech, hereby certify that the following are our main project list in Korea.

Name of Project	Contract Amount (USD)	Month/Year	Span
Gamcheon Port (International Fish Market) Construction	160,000	Nov. 2013	267 spans
Boryeong-Taean 2 Sector	210,000	Oct. 2013	350 spans
Heaundae Beach	432,000	May. 2013	720 spans
Dangjin Thermal Power Plant Construction	450,000	Aug. 2013	750 spans
Incheon Port International Passenger Wharf Construction	10,000	Sep. 2012	17 spans
Pusan New Port Second (2-5 Step)	10,000	Sep. 2012	17 spans
Galsa Bay Shipbuilding Industry Construction	100,000	Aug. 2012	167 spans
Mokpo South-Port Government Ships Pier Construction	50,000	Aug. 2012	83 spans
Aewol Port Step 2	10,000	Jul. 2012	17 spans
Port Mooring Facilities Construction	15,000	Mar. 2012	25 spans
Gogyunsan 3 Sector	10,000	Jan. 2012	17 spans
Gwangyang Drainage Construction	15,000	Jan. 2012	25 spans
Sinma Port Construction	25,000	Jul. 2011	42 spans
Ulsan New Port Construction	12,000	Jul. 2011	20 spans
Gwangyang Plant Expansion Construction	20,000	May. 2011	33 spans
Yeosu Oil Tank Construction	10,000	Apr. 2011	17 spans
Samcheong Green Power Construction	13,000	Feb. 2011	22 spans
Pusan Port Coast Guard Pier Construcition	10,000	Feb. 2011	17 spans
Jeongoghang Aquarium Relocation	10,000	Feb. 2011	17 spans
Dangjin Thermal Power Plant Construction	15,000	Feb. 2011	25 spans
Kyungin-Ara Waterway Construction	12,000	Feb. 2011	20 spans
Seogmun 5 Sector	10,000	Jan. 2010	17 spans
Daewoo Tongyeong LNG Construction	20,000	Sep. 2009	33 spans
Total	1,629,000	-	2715 spans



SILT PROTECTOR PROJECT LIST (OVERSEAS)

We, Daeyoun Geotech, hereby certify that the following are our main overseas project list in overseas

Name of Project	Nation	Contract (USD)	Month/Year
Pinang Island Reclamation Project	Malaysia	11,585	MAR. 2016
Tsuen Wan West Station, TW-6 Property Development	HongKong	898	AUG. 2015
Replacement and rehailitaion of water mains at Peng Chau	HongKong	3,016	MAR. 2015
Deep vemet Mixing Trial Works	HongKong	10,186	MAR. 2015
Dual 2-lane carriageway between HZMB BCF and North Lantsu Highway	HongKong	20,306	APR. 2014
Catbi airport	VIETNAM	300,000	DEC. 2013
Congio Island development	VIETNAM	100,000	DEC. 2013
Congio Island development	VIETNAM	100,000	DEC. 2013
Pomosa Posco	VIETNAM	300,000	DEC. 2013
Hanoi~Haiphong pkg7 GS	VIETNAM	500,000	DEC. 2013
Pomosa Hathin Steel	VIETNAM	200,000	DEC. 2013
Camau Road & etc	VIETNAM	1,500,000	DEC. 2013
The Sothern Coastal Corridor-Minh Luong project	VIETNAM	730,000	DEC. 2012
Siltprotect(NSRP Project)	VIETNAM	300,000	SEP. 2013
Siltprotect(Lach Huyen Project)	VIETNAM	100,000	SEP. 2013
The Sothern Coastal Corridor-Kenh 14 Bridge	VIETNAM	100,000	NOV. 2012
Rach Gia Giang Bypass Project	VIETNAM	250,000	NOV. 2012
Hanoi-Haiphong Express Way 5 Sector	VIETNAM	500,000	AUG. 2012
Hanoi-Haiphong Express Way 4 Sector	VIETNAM	1,000,000	MAR. 2012
Hanoi-Haiphong Express Way 6 Sector	VIETNAM	520,000	MAR. 2012
Hanoi-Haiphong Express Way 2 Sector	VIETNAM	520,000	OCT. 2011
Hanoi-Haiphong Express Way 10 Sector	VIETNAM	520,000	SEP. 2011
Hanoi-Haiphong Express Way 3 Sector	VIETNAM	600,000	SEP. 2011
Hanoi-Haiphong Express Way 8 Sector	VIETNAM	600,000	SEP. 2011
Hanoi-Haiphong Express Way 7 Sector	VIETNAM	615,000	APR. 2011
Hochiminh TBO Project	VIETNAM	50,000	APR. 2011
Posco port for steel process factory in Phu My	VIETNAM	150,000	APR. 2010
National way Hochiminh~Trung Luong project	VIETNAM	200,000	FEB. 2010
Caimep Industrial Park	VIETNAM	200,000	JUN. 2010
National way No. 61B project	VIETNAM	200,000	JUN. 2010
National way No.51 project	VIETNAM	300,000	JUN. 2009
Hanoi~Hochiminh Express Way Caugie-Ninh binh project	VIETNAM	400,000	JAN. 2008
Hanoi Than Tri Bridge	VIETNAM	300,000	JAN. 2008



Daeyoun Geotech GEONIA Silt Protector

Project Reference





GEONIA Daeyoun Geotextile Silt Protector

Date	Project	Client	Consultant	Model	Size (W x Lm)	No. of Span
Jul-03	CV/2002/04 Penny's Bay Reclamation Stage 2	Gammon Construction Ltd	Scott Wilson Ltd		5 x 20m 5 x 10m	86 256
May-13	DC/2011/01 Drainage Maintenance and Construction in Mainland South Districts (2011-2015)	World Diamond Engineering Ltd	Drainage Services Department	GSP 15	5x20m 3x5m 3x2m 3x13m	1 10 1 4
Apr-14	HY/2012/07 Dual 2-lane carriageway between HZMB BCF and North Lantau Highway	Gammon Construction Ltd	AECOM Asia Co Ltd	DSP15	6 x 20 7 x 20 9 x 20	24 10 10
Mar-15	16/WSD/11 Replacement and rehabilitation of water mains at Peng Chau, Sunshine Island and Hei Ling Chau	Pipe Tech Ltd MIRDTEC HK Ltd	AECOM Asia Co Ltd	DSP 15 DSP 15 DSP 15	0.6 x 20 1.2 x 20 1.5 x 20	1 22 6
Mar-15	P552 Deep Cement Mixing Trial Works	Penta Ocean Construction Co Ltd	Atkins China Ltd & Mott MacDonald	DSP30 DSP30	8 x 20 8 x 25	2 6
Aug-15	Tsuen Wan West Station, TW-6 Property Development	Hip Hing Construction Co Ltd	Mannars Chan & Associates	DSP15	4 x 20	1
Dec-15	HK/2012/08 Wan Chai Development Phase II - Central Wan Chai Bypass at Wan Chai West	China State - Leader JV	AECOM Asia Co. Ltd	DSP30 DSP30 DSP15 DSP15 DSP15	10 x 20 5 x 10 10 x 20 9 x 20 8 x 20	6 6 5 5 5
Mar-16	Asia Pacific Gateway (APG) - Tseung Kwan O (Cape Collinson)	Maritime Mechanic Ltd	Environmental Resources Management	DSP15	14 x 12	20
Nov-16	Dredging works at Marina Cove	Fung Kau Kee Contractors Ltd		DSP15	5 x 20	2
Nov-16	HY/2012/08 Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section	Crown Asia Engineering Ltd Dragages - Bouygues JV	AECOM Asia Co. Ltd	DSP15 Marker Buoy	8 x 20 9 x 20 10 x 20 Dia: 520mm	5 35 5 12 nos.
Dec-16	C3203 3rd Runway System Project DCM Ground Improvement Works (Package 3)	Sambo E & C Co Ltd	Atkins China Ltd & Mott MacDonald	DSP 30 Barge Type	4 x 10 2 x 10 4 x 9 1.6 x 9 2.8 x 9 1.8 x 9 2 x 9	46 2 246 4 2 2 2
Dec-16	C3204 3rd Runway System Project DCM Ground Improvement Works (Package 4)	CRBC-Sambo JV	Atkins China Ltd & Mott MacDonald	DSP30	6 x 5.3 6 x 11.3 6 x 12.3 6 x 12.8 6 x 13.8 6 x 6	2 20 4 4 100
Jan-17	C3201 3rd Runway System Project DCM Ground Improvement Works (Package 1)	Penta Ocean-China State- Dong Ah JV	Atkins China Ltd & Mott MacDonald	DSP 30	6 x 8	154
Feb-17	P560 Aviation Fuel Pipeline Diversion Works	Kat Yue Construction Engineering Ltd	Mott MacDonald	DSP15	1.5 x 20	8
Apr-17	HKHA20120023 Public rental housing, Shek Mun Estate	Hin Sum Engineering Co Ltd	Wong & Ouyang (Building Services) Ltd	DSP / SG110	3 x 20	2
Jul-17	Refuse Boom at Tai O by World Wide Fund	World Wide Fund		DSP15	0.5 x 20	3
Aug-17	Lyric Theater Complex and Extended Basement Project for the WKCD Authority	Gammon Construction Ltd	AECOM Asia Co. Ltd / Mott Macdonald HK Ltd	DSP15	8 x 20	6



14/F Kiu Yin Commercial Building 361 - 363 Lockhart Road, Wanchai, Hong Kong ENGINEERING Tel: 852-2570 0103 Fax: 852-2570 0089 Since 1984 website: www.g-and-e.com website: www.g-and-e.com





Date	April 2017
Project	Contract No. HKHA20120023 Public Rental Housing, Shek Mun Estate
Client	Housing Authority
Consultant	Housing Authority
Main Contractor	Hin Sum Engineering Co. Ltd
Works	Silt Curtain to Enclose Marine Work
Material	DSP System with Woven Geotextile Bontec SG110/110
Quantity	2 spans of 3m Depth x 20m Length







Date	October 2016
Project	Contract C3201 Three Runway System Project Deep Cement Mixing Works (Package 1)
Client	Hong Kong Airport Authority
Consultant	Atkins in association with Mott MacDonald
Main Contractor	Penta Ocean-China State- Dong Ah JV
Works	Barge Type Silt Curtain
Material	DSP 30 6m Depth x 8m Width
Quantity	134 spans





- Project Contract No. HY/2012/08 Tuen Mun - Chek Lap Kok Link Northern Connection Sub-sea Tunnel Section
- Client Highways Department
- Consultant AECOM Asia Co. Ltd
- Main Contractor Dargages Hong Kong
- Works Turbidity Control in Reclamation Works
- Material Geonia Silt Curtain
- **Quantity** 45 spans of various depth







Date	March 2016
Project	Asia Pacific Gateway (APG) - Tseung Kwan O
Client	China Mobile International Limited
Consultant	Environmental Resources Management
Main Contractor	Maritime Mechanic Ltd
Works	Fiber Optic Laying Turbidity Control
Material	DSP15 Silt Curtain





Date	May 2014
Project	HY/2012/07 Tuen Mun - Chek Lap Kok Link- Sothern Connection Viaduct Section
Client	Highway Department
Consultant	AECOM Asia Co. Ltd
Main Contractor	Gammon Construction Ltd
Material	DSP 15 Silt Curtain
Quantity	6m x 20m 24 spans 7m x 20m 10 spans 9m x 20m 10 spans







Date	April 2015
Project	Contract No. 16/WSD/11 Replacement and rehabilitation of water mains, stage 4 phase 2
Client	Water Service Department
Consultant	AECOM Asia Company Limited
Main Contractor	Pipe Tech Ltd
Material	Daeyoun Geotech DSP 15 Silt Curtain
Quantity	1.2 x 20m 2 spans 1.5 x 20m 4 spans







Date	October 2016
Project	Contract C3201 Three Runway System Project Deep Cement Mixing Works (Package 1)
Client	Hong Kong Airport Authority
Consultant	Atkins in association with Mott MacDonald
Main Contractor	Penta Ocean-China State- Dong Ah JV
Works	Barge Type Silt Curtain
Material	DSP 30 6m Depth x 8m Width
Quantity	134 spans







Date	March 2015
Project	Contract No. P552 Deep Cement Mixing Trial Works
Client	Hong Kong Airport Authority
Consultant	Atkins - Mott MacDonald
Main Contractor	Penta Ocean Construction Co Ltd
Works	Primary Barge Silt Curtain
Material	DSP30 Silt Curtain
Quantity	8m x 20m 2 Spans 8m x 25m 6 Spans





Date	Sep 2013
Project	DC/2011/01 Drainage Maintenance and Construction in Mainland South Districts (2011-2015)
Client	Drainage Service Department
Consultant	Drainage Service Department
Main Contractor	Paul Y. Construction Co. Ltd
Works	Inflow Interceptor Silt Curtain
Material	GEOS GSP 15 Silt Curtain
Quantity	16 spans



Daeyoun Geotech GEONIA Silt Protector

Approval Letter

	(Statements)		CR-CPJV		CS No.	Rev
S	CONTRACTOR'	S SUBMISSION			CCOM No.	1503
V/R	NEC Op	otion C				
ONTRACT:	Improvement of Fresh Water Supp	ly to Cheung Chau	CONTRACT No.:		1/WSD/13	
ETTER REF.:	CR-CPJV/1WSD/13/S210(01)/574		ISSUE DATE:		26-Sep-201	5
CAPTION:	Submission of Alternative Design and Curtain	d Material for Silt	PREVIOUS SCOMM.:			
DISCIPLINE:	N/A		REVISION No.:			
ection A:				Į.	Tran	THO OF
`o:	The Project Manager	Submi	ssion for Acceptance of:	vings	No.	104
lopies to:	Mr. Stephen Cheung W/E		☐ Prog ☐ Test	ramme Results		
eriod for reply:			☐ Meth □ Othe	od Statement rs:		
'he following is su	bmitted for your review and acceptance:-					
Copies	Date <u>No.</u> <u>Description</u>					
Signed for Contract	or:		Title: Gord (Site	on Ng • Agent)		
tigned for <i>Contract</i>	or: Response	Lette	Title: Gord (Site	on Ng e Agent)		
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Form 5.3

Page 1 of 1

		CD CDW/	CC No Dow
	CONTRACTOR'S SUBMISSION	CK-CPJV	LS NO. Kev
	-	RB	CCOM No. 1541
V/A	NEC Option C	* *	
CONTRACT:	Improvement of Fresh Water Supply to Cheung Chau	CONTRACT No.:	1/WSD/13
LETTER REF.:	CR-CPJV/1WSD/13/S210(01)/589	ISSUE DATE:	13-0ct-2015
CAPTION:	RE: Submission of Alternative Design and Material for Silt	PREVIOUS SCOMM.:	SCOM/01448
DISCIDI INE.	Curtain	DEVICION No -	
DISCIPLINE:	N/A	KEVISION NO.:	
Section A:			
То:	The Project Manager Submis	sion for Acceptance of:	
			T TO OTHER TO THE
Copies to:	Mr. Stephen Cheung W/E	Programme Test Results	LEI
Period for reply:		Method Statement	No. 1891
		Others:	
The following is su	bmitted for your review and acceptance:-		
<u>Copies</u>	Date <u>No.</u> Description		
1	13-Oct-15 RE: Submission of Alternative Design an	d Material for Silt Curtain	
We refer to your le	tter SCOM/01448 dated 7 October 2015 regarding the captioned, we subm roval.	it herewith the supplementary docum	ent in response to the comments
1. Confirmation let	ter from supplier.		
2. As shown in the	quotataion, one span is 20m length.		
3. Verification of m	aterial from ET.		MECEIVE
			Щ Z U U С Z015 Д
			BY:
			/
			/
Signed for Contract	or: (Original Signed)	Title: Gordon Ng (Site Agent)	/
Signed for Contract	or: (Original Signed)	Title: Gordon Ng (Site Agent) 	/
Signed for Contract	or: (Original Signed) Response COMM No.: SCOM/01472 Letter	Title: Gordon Ng (Site Agent) 	50/02655
Signed for <i>Contract</i> Section B: To:	or: (Original Signed) Response COMM No.: SCOM/01472 Letter The Contractor The Sub	Title: Gordon Ng (Site Agent) Ref.: 1/WSD/13/M25/3 mission is returned as indicated:	50/02655
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Daeyoun Geotech GEONIA Silt Protector

Prototype Sample

Prototype Sample



Tube Type



egistration Dertificate

This is to certify that the Management Systems of

G & E Company Limited

have been assessed by AJA Registrars and registered against the requirements of

ISO 9001:2008

Certificate No. :

AJA14/17026

Date of Original Registration :

22nd January 2014

Expiry Date :

15th September 2018 Date of Re-Registration :

16th February 2017

Previous Expiry Date : 14th December 2016



0059

Chief Executive - AJA Registrars Ltd





This certificate is issued in respect of the locations & scope of registration detailed in the Associated Registration Schedule. This certificate is the property of AJA Registrars Ltd Unit 6 Gordano Court Gordano Gate Business Park Serbert Close Portishead Bristol UK BS20 7FS and must be returned on request. A member of the AJA Group of Companies



後和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

7.3 Appendix C

Technical Details of the Silt Curtain

Part 2: Bontec SG110/110



SG WOVEN GEOTEXTILES



we under cover the world



A TOTAL RANGE OF GEOTEXTILES

BONAR TECHNICAL FABRICS NV/SA ndustriestraat 39 B-9240 Zele BELGIUM T.: +32 (0) 52 457 487 F.: + 32 (0) 52 457 495 F-MAIL : geotextiles@bonartf.con

For UK and Ireland: BONAR YARNS & FABRICS Ltd Dundee Scotland DD3 7EU T.: +44 (0)1382 346102 F.: +44 (0)1382 229238 E-MAIL: geotextiles@bonarvarns.com

website: www.bonartf.com

bontec waven and nonwoven gestextiles

Bontec SG woven geotextiles are manufactured from polypropylene tapes & yarns, and exhibit an excellent chemical resistance to commonly encountered acids and alkalis at ambient temperatures. Available in a lightweight range with products from 80 to 200g/m2, and a heavyweight range from 200 to 800g/m2.

Available ex-stock in 4.5m and 5.25m wide rolls or other widths to order



Other geotextiles available within the Bontec range include Highflow, High strength Wovens and Thermally Bonded & Needlepunched Nonwovens

Visit us at our website: www.bonartf.com

For UK and Ireland: BONAR YARNS & FABRICS Ltd t. Salvador Street | Dundee | Scotland | DD3 7EU T.: +44 (0)1382 346102 | F.: +44 (0)1382 229238 E-MAIL: geotextiles@bonaryarns.com

Headquarters: BONAR TECHNICAL FABRICS NV/SA Industriestraat 39 | B-9240 Zele | BELGIUM T.: +32 (0) 52 457 487 | F.: + 32 (0) 52 457 495 E-MAIL: geotextiles@bonartf.com









REINFORCEMENT





For further product information, be it a technical data sheet or to discuss your project with one of our in-house geotextile experts please do not hesitate to contact one of our offices listed below.

SG Woven Geotextiles PRODUCT PROFILE

"An exciting range of Standard Grade geotextiles that offer the perfect solution to your Separation requirements. With tensile strengths ranging from 10 to 300 kN/m you can be certain that an SG fabric will be available with the performance that you are looking for."

DAILY SEPARATION, SOIL STRENGTHENING OR GROUND REINFORCEMENT?

Bontec SG facts include:

Tensile strengths up to 300 kN per metre (kN/m) width ■ CBR Puncture Strengths ranging from 1.800 N to 12.500 N SG Mechanical Properties that offer maximum strength at minimal cost and ensure the products survivability both against installation damage and in the longer term.

Lightweight woven geotextiles typically offer greater mechanical strengths per unit weight than comparable nonwoven grades. This makes lightweight woven geotextiles the ideal choice for separation

Waterflows normal to the plane that are generally several times more than that required by design

A range of consistent opening sizes suited for use in soils ranging from clay to coarse granular fill.

SG hydraulic properties that are suited to the demands of everyday separators.

Typical applications for SG woven geotextiles include:

As a general purpose separator for use under site access roads and areas of hardstanding.

As a separation and strengthening layer under new roadways, car parks, industrial units etc.

As an erosion control layer under heavy rock armour in coastal defence projects.

For any separation application where there exists a need to prevent the

intermixing of soft foundation soils with good clean granular fill.



SG Woven Geotextiles have been manufactured as a cost effective solution to your soil separation and stabilisation applications. They are manufactured from highly durable polypropylene polymer and have a long life expectancy when used in permanent structures.



Invisiony good



Bontec SG110/110 Woven Polypropylene Geotextile

Product Specification



a bonar technical fabrics product



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



			$\begin{array}{c} \bullet \bullet$	
separation	filtration	reinforcement	protection	drainage

	test method	value	tolerance		
Mechanical properties					
Tensile strength MD	ENUSO 10310	110,0 kN/m	-9,9 kN/m		
Tensile strength CD	EN IOU IUSIS	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		
Hydraulic properties					
Water permeability normal to the plane	ENUSO 11059	25x10-3 m/s	-8x10-3 m/s		
Water flow normal to the plane (*)	EN 180 1 1036	25 l/m².s	-8 l/m².s		
Characteristic opening size (AOS)	EN ISO 12956	230,0 μm	+/-69,0 µm		
Physical properties					
Thickness under 2 kPa (*)	EN ISO 9863-1	1,53 mm	+/-0,31 mm		
Weight (*)	EN ISO 9864	464,0 g/m²	+/-46,4 g/m ²		
Composition	100 % polypropylene w	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
			*	A N
reservoirs & dams	canals	Tunnels & under- ground structures	solid waste	liquid waste
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. It is the responsibility of all users to satisfy themselves that the above data is current.

3. Roll dimensions are 5,25 m x 100 m. Other dimensions on demand.

4. Bonar Technical Fabrics reserves the right to alter product specifications without prior notice.

5. Although not guaranteed, these results do to the best of our knowledge offer a true and accurate record of the product's performance.

6. Bonar Technical Fabrics cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.

7. Geotextile has to be covered within 2 weeks after installation

(*) Not mandated characteristics for CE marking.



BONAR Technical Fabrics nv/sa, Industriestraat 39, 9240 Zele, BELGIUM - ☎ +32(0)52 457411 - 🖹 +32(0)52 457495 BONAR Yarns & Fabrics Ltd, St. Salvador Street, Dundee DD3 7EU, UK - ☎ +44(0)1382 346102 - 🖺 +44(0)1382 202378



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 w

website: 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 nonwoven 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 locates 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 SG110/110 Woven Polypropylene Geotextile

Certification



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CERTIFICATE OF ENVIRONNEMENTAL 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° DS/AJ/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



D. SIMOENS Directeur

Any person aware of misuse of this certificate may address himself to the BQA, nv. This certificate may only be disclosed in its entirety.

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DS/AJ/CM/12-07-2004

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🛲 a bonar technical fabrics product 🛲



woven and non woven geotextiles 📾

Zelc,05.10.09

CERTIFICATION OF COMFORMANCE

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

Invoice F0918342

Туре	NW 9 525 : 10500 m ²
Туре	NW 10 525 :18375 m ²
Туре	NW 20 5250 : 10500 m ²
Type	SG 100/100 : 5250 m ²
Delivery does :	Packing list N. T0908524 and T0908557

Manufacturer : Bonar Technical Fabrics N.V.

BONAR TECHNICAL FABRICS N.V.

untelan

BONAR TÉCHNICAL FABRICS N.V. p/a industrissinger 39 B-8240 Zoig



BONAR TECHNICAL FABRICS nv/sa Industriestraat 39 • B-9240 Zele • Belgium Tel +32 (0) 52 457 493 • Fax +32 (0) 52 457 495 E-mail geotextiles@bonartf.com

BONAR Yams & Fabrics Ltd St. 5alvador Straat • Dundee DD3 2EU • United Kingdom Tel +44 (0) 1382 346102 • Fax 44 (0) 1382 202378 5-mail geotextiles@bonaryams.com



12/08 2004 16:43 FAX 32 52 457495

BONAR TF GEO



A banse technical fabrics product

Fax

Date: 11-Aug-04		8-11911 N	
To: G and E - Hong Kong	From: Isabelle Ruyffelad	ere – 0032 52 457 487	
Mr. Gary NG	Philippe Grimmelprez – 0032 52 4		
Fax:	Pages: 1 +		
Your reference: Bonar TF acquisitio	on of Uco Technical Fabrics	2 3	
	Our reference:	G&E11082004.fax	

To Whom it may concern

We hereby confirm that Bonar acquired the company <u>UCO Technical Fabrics</u> 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 headquaters 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

Aur

Bhilippe Grimmelprez Sales & Marketing Manager geotextiles.



BONAR Technical Fabrics nv/sa Industriesmar 33: 8-9240 Zate - Belgium Ter +32 (0)52:457 411 - Fax;+32 (0)52:457 495 E-mail geotext/los@bonard.com BONAR Yarns & Fabrics Ltd St. Salvador Street - Dundoo DO3-7EJ - United Kingdom Tel +44 (0)1382 346102 - Eac +44 (0)1382 202378 E-mail rguid@banaryeris.com



Bontec SG110/110 Woven Polypropylene Geotextile

List of Project Reference

Bonar

Date	Project	Client	Consultant	Style
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	Maunsell Geotechnical	SG100/100
		Honwin Engineering Ltd	Services Ltd	SG100/100
Jul-05	Shenzhen to Tai Po Twin Submarine Gas Pipeline Project	Honwin Engineering Ltd		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	Hong Kong River Engineering Co Ltd	Ove Arup & Partners HK Ltd	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 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 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 Castle Peak Road Improvement	Shun Tat Construction Engineering Limited	Mouchel Halcrow JV	SG100/100
	West of Tsing Lung Tau	Chun Wo Construction & Engineering Co Ltd		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 & Partners HK Ltd	SG100/100
Jun-06	Hong Kong Convention and Exhibition	Wai Kee (Zens) Construction	NA	SG100/100
	Intake Pipe	& Transportation Co Ltd Kaden - Wai Kee (C&T) Joint Venture		SG100/100
Aug-06	EP/SP/52/06 Development of EcoPark in Tuen Mun Area 38	Kaden Construction Limited	Scott Wilson Ltd	SG100/100
Sep-06	CV/2004/06 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	Kin Shing Construction Co Ltd	Civil Engineering and	SG100/100
	Maintenance and Repairs to Seawalls, Piers and Other Port Works		Department	
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 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 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 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 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 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	1	SG100/100
Nov-08	DC/2007/06 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 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 SG40/40
Jun-09	CHEC247 Lamma Power Station - Navigation Channel Improvement	China Harbour Engineering Co Ltd		SG100/100

Updated November 26, 2009



Bontec SG110/110 Woven Polypropylene Geotextile

Photo References





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





Date	March, 2010
Project	Contract No. HK/2009/01 Wan Chai Development Phase II -Central - Wanchai Bypass at Hong Kong Convention and Exhibition Centre
Client	Civil Engineering and Development Department
Consultant	AECOM Asia Co. Ltd
Main Contractor	Chun Wo - Leader Joint Venture
Works	Woven Geotextile SG100/100
Size	4,200 sqm
Application	Intake Silt Curtain





Date	Mar 2010
Project	Contract No. KL/2009/01 Site formation for Kai Tak Cruise Terminal Development
Client	CEDD
Consultant	Scott Wilson Ltd
Main Contractor	Penta-Ocean Construction Co. Ltd
Works	SG100/100 as Silt Curtain
Size	1,050 sq m





Date	March 2010
Project	KL/2009/01 Site formation for Kai Tak Cruise Terminal Development
Client	CEDD
Consultant	Scott Wilson Ltd
Main Contractor	Penta-Ocean Construction Co. Ltd
Materials	SG100/100
Size	1,050 sqm





Date	March 2006
Project	Contract No. HY/2005/06 Castle Peak Road Improvement West of Tsing Lung Tau
Client	Highway Department
Consultant	Mouchel Halcrow JV
Main Contractor	Chun Wo Construction & Engineering Co., Ltd.
Works	Silt Curtain
Size	1,050 sqm



Bontec SG110/110 Woven Polypropylene Geotextile

Approval Letters

24-FEB-2005 18:57 FROM SFK 10:2 78101

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

 Web site
 網址
 :http://www.sedd.gov.hk

 E-mail
 電子郵件:

 Telephonc
 電話
 :(852) 2762 5035

 Facsimile
 修改
 :(852) 2714 2054

 Out reference
 水薯榕號: (15) in PW WC/CV0306/R20/540 Pt.01

 Your reference
 水薯榕號: CIV:002091/1.2/HW/SY/CC/mc(50087).

 CIV:002091/1.2/HW/SY/CC/mc(50118)

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.

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Yours faithfully,

Paul YKMA)

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

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

File PW WC/CV0306/M10/300

YKM/den

	1 Date 24/2/05 Dellas
Post-It" Fax Note	From CHAMGESCE
TO MP. STANGET MC	Too. Sek all Thes
Co.Dept. 0120 C	Phone 607 110
FAX# 25700049	

TOTAL P.01

土木江程處 Civil Engineering Office

TO 25700089

答海九能公主道 101 號

Kowtoon, Hong Kong

古る九龍公王道 for an 上木工程拓展琴大樓 4 様 4/F. Civil Engineering and Development Building,

101 Princess Margaret Road.

18 February 2005

P.01/01

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Service and service

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	(FDD Chill F	RELIVED	土木工程處	Q
	Development Dep	and Cartment	Civil Engineering (Office
	Web stre 網址 :http://www.ccdd E-mail 電子郵件 Telephone 電話 :(852) 2760 5737 Facsimile 僅其 :(852) 2714 2054 Our reference 本審檔號 :() in PW WC/C Your reference 來函檔號 :KS330/2005	.gov.bk V0402/R20/340 Pt.I	香港九酯公主道101號 土木工程拓展著大概四 4/F, Civil Engineerin Development Buildir 101 Princess Margar Kowloon, Hong Kong	楼 g and ig, rei Road, J
	Kin Shing Construction Compa	ny Limited	24	January 2005
	1/F, 27 Yin Chong Street, Mong Kok Kowloon (Attn.: Mr. Patrick P K Chan - S	Site Agent)	<u>BY MAIL & F</u>	<u>IX No. 2780 2085</u>
	Dear Sirs,	a na 2007 NANS A 2017 NANA 2017 20		9 <u>2 5</u>
-	Reconstruction	Contract No. CV/2004/02 a of Wong Shek and Ko Lau	2 <u>Wan Public Piers</u>	
	<u>Material</u>	Submission - Geotextile for S	Silt Curtain	
а. н	l refer to your letter of 14 silt curtain.	.1.2005 enclosing the particular	s of the geotextile for	fabrication of
	In accordance with PS manufactured by Bonar Technica Pursuant to PS Clause 26.	Clause 26.08(2), the proposed l Fabrics is approved to be used 08(1), you are required to subm	I "SG 100/100" wow under the captioned C it details of the silt curr	en geotextile Contract.
0	Before their deployment.	1 ⁰		AIIIS 2 WEEKS
	Contract No. 6 CP F V Poss Initial, Copy Action CM / / / / / / / / / / / / / / / / / / /	You	rs faithfully,	
2	Sub-A GPL / Eng.(1) 6	Engineer	W H LEE)	
	Sarvey	Port W Civil Engineering an	orks Division ad Development Depar	rtment
	c.c. SIOW/P2B – Site Copy	,		
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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

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

Attn ; Mr. S. Y. Yu

Dear Sirs,

North Lantau Development Contract No. NL1/91 Tung Chung Development Phase I - Site Formation Materials for Subsoil Drains 30 June 1992



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 :

- 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

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Luke Chi Engineer's Representative

LC/JY/ak

a.

Maunsell Consultants Asia Ltd 8/F Grand Central Plaza, Tower 2, 138 Shatin Rural Committee Road. Shatin, N.T., Hong Kong

<u>茂盛(亞洲)工程顧問有限公司</u> 香港新界沙田郷事會路 138 號新城市中央质場第 2 座 8 機 T +852 2605 6262 F +852 2691 2649 www.maunsell.aecom.com SRE's Office T +852 2669 0708 F +852 2631 2889 E sre@ltriw.com.hk

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

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

NIECIEIUVI NI 13 NOV 2008 BY:----

MAUNSELL AECOM

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 Tal 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.

Maunsell AECOM Group Chief Executive : TC K Shum. President : D D SLo. Chief Financial Officer : P K L Wong. Maunsell Consultants Asia Ltd. Chairman : FS Y Bong. Managing Director : E S C Ma. Executive Directors : C W T Wong, A K W L, M C Pearson, S A Robinson, F S K Yan, S H R Sham, K K H Tsang, D C SLee, L J Endicolt, E K H Chan, F H Y Ng, K L Wong, A Y Kwok, A K F Kwan, C K Lau, P A Chao, T K S Tang. F S K Yan, S H R Sham, K K H Tsang, D C SLee, L J Endicolt, E K H Chan, F H Y Ng, K L Wong, A Y Kwok, A K F Kwan, C K Lau, P A Chao, T K S Tang. F S K Yan, S H R Sham, K K H Tsang, D C SLee, L J Endicolt, E K H Chan, F H Y Ng, K L Wong, A Y Kwok, A K F Kwan, C K Lau, P A Chao, T K S Tang. Technical Directors : Y Yamasala, C H T So, J Y Ling, C C W Ng, P M Cheak, K H K Chong, J W Whiten, H Y Y Wong, J Y E Chui. Consultants : A Hamilton, R D Taylor. N C Cheung, Associates : R J Mickell, J T Hall, C W K Luk, I S P Chung, L N K tau, I W L Ho, A P S Au, K B C Cheng, P T Coak, D S W Leung, J Y E Li Offices : Assiralia, Canada, China, Denmark, Egypt, Gaza, Greece, Hong Kong, India, Indonesia, Iraland, Israet, Malaysia, Natherlands, Cman, Philippines, Poland, Puerto Rico, Romania, Cetar, Singapore, South Korea, Thaitand, United Arab Emirates, United Kingdom, United States of America, Vietnam.

caring**company**



俊和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

7.4 Appendix D

Visual Inspection Checklist & Diving Inspection Checklist



後和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No.: <u>HK/2009/02</u>

Contract Title:

<u>Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East</u> <u>Silt Curtain Diving Inspection Checklist</u>

- Location:
 Time and Date:
- 3. Diver:

整潔	狀況
1. 沒有垃圾在隔泥布內	
2. 已清理隔泥布内垃圾	
其他問題(請註明):	
隔泥布狀況	
1. 隔泥布沒有損壞	
2. 隔泥布沒有鬆脫	
3. 隔泥布接口位沒有鬆脫	
其他問題(請註明):	
簽署:	
× = 不滿意,須改善	
- = 不適用	

JV: ______ (Sign) _____ (Name)

RSS: _____(Sign) _____(Name)



後和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No.	<u>HK/2009/02</u>						
Contract Title	<u>Wan Chai Development Phase II – Central – Wan Chai Bypass at Wan Chai East</u>						
Silt Curtain Daily Visual Inspection Checklist							
位置:							
日期:	檢査員:						

	-	-		-		
清洗員:	星	星	星	星	星	星
	期	期	期	期	期	期
	<u> </u>	<u> </u>	\equiv	四	Ŧī.	六
整潔						
1. 沒有垃圾在隔泥布內						
2. 已清理隔泥布內垃圾						
其他問題(請註明):	•	•	•	•	•	•
隔泥布狀況						
1. 隔泥布沒有損壞						
2. 隔泥布沒有鬆脫						
其他問題(請註明):						
★ = 不滿意,須改善						
- = 不適用						

JV: ______(Sign) _____(Name)

RSS:	(Sign)
	(Name)



俊和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan

7.5 Appendix E

Photo of Genoia Silt Protector DSP15 (Tube Type)



後和-中國中鐵聯營 CHUN WO-CRGL JOINT VENTURE

Contract No. HK/2009/02 Wan Chai Development Phase II Central – Wan Chai Bypass at Wan Chai East Silt Curtain Deployment Plan



