## Welcome to e-Guide for C-Forms & Record Structural Plans Submissions

(Click on any button to start)

# 1. Basic Terms & Definitions



2. Brief Introduction to ESPro







4. General Pointers

## **1. Basics Terms and Definitions**

## 

1.1 C-Forms

1.1.1 What are C-Forms?
1.1.2 Where are C-Forms Located?
1.1.3 Types of C-Forms

1.2 Endorsement Forms

Endorsement Forms
1.2.1 What are Endorsement Forms?
1.2.2 Where are Endorsement Forms Located?
1.2.3 Types of Endorsement Forms

1.3Record Structural Plans1.3.1What are Record Structural Plans?

**1.4** Simplified Terms Used in This E-Guide

(Click anywhere to advance)

#### 1.1 C-Forms



#### 1.1.1 What are C-Forms?

C-Forms are certificates to be provided by the QP upon the completion of structural works under structural plans approved by BCA, for the declaration of their responsibilities under the Building Control Act and Regulations.

#### **1.1.2** Where are C-Forms Located?

C-Forms are located at two different places, as they can be submitted either via CORENET or walk-in submission.

- For CORENET Submission it is located under the "Template Area" in the CORENET Submission System, ESPro, which is illustrated in this e-Guide.
- For walk-in submission, it can be downloaded from the BCA website.

### 1.1.3 Types of C-Forms



#### To be Submitted by the Supervising QP

- **C1 form (QPCTPW form)** Certificate of Supervision of Piling Works and Notice of Completion by the Qualified Person for Structural Works.
- **C2 form (QPCTSSW form)** Certificate of Supervision of Structural Works by the Qualified Person for Structural Works.

#### To be Submitted by the Geotechnical Supervising QP

- **C1-GBW form (QPCTPW-GBW)** Certificate of Supervision of Piling Works and Notice of Completion for Geotechnical Building Works.
- **C2-GBW form (QPCTSSW-GBW)** Certificate of Supervision of Geotechnical Building Works.

#### To be Submitted by the Design QP

 C3 form (CTASST form) - Submission Certificate of Record Structural Plans / Calculations.

#### To be Submitted by the Geotechnical Design QP

• **C3-GBW form (CTASST-GBW form)** - Submission Certificate of Record Geotechnical Building Plans / Calculations.

## 1.2 Endorsement Forms



#### **1.2.1** What are Endorsement Forms?

Endorsement Form is a certificate that is required to be submitted separately by the Design QP and the AC, to declare their endorsement on the record structural plans and calculation files under the Building Control Act and Regulations.

Endorsement form is required to be submitted only when there is record structural plans submitted with the C3 or C3-GBW forms.

#### **1.2.2** Where are Endorsement Forms located?

Endorsement forms are located in the C3 and C3-GBW folders under the "Template Area" panel in CORENET submission system, ESPro.

### **1.2.3 Types of Endorsement Forms**



#### To be submitted by Design QP

• **ENABQP form** - Endorsements on Record Piling / Structural Plan Certificate to be Endorsed by the Qualified Person for Structural Works.

#### To be submitted by AC

• ENABAC form - Endorsements on Record Piling / Structural Plan Certificate to be Endorsed by the Accredited Checker.

#### To be submitted by Design QP(Geo)

• ENABGBWQP form - Endorsements on Record Piling / Structural Plan Certificate to be Endorsed by the Qualified Person for Geotechnical Aspects of Geotechnical Building Works

#### To be submitted by the AC(Geo)

• ENABGBWAC form - Endorsements on Record Piling / Structural Plan Certificate to be Endorsed by the Specialist Accredited Checker.

## 1.3 <u>Record Structural Plans</u>



#### **1.3.1 What are Record Structural Plans?**

Record structural plans are plans recording the as-built structural works carried out on site which involve minor departures or deviations to the plan submitted by the QP and approved by BCA.

If the as-built structural works carried out on site involves major structural changes to the approved plans, submission as record structural plans will not be accepted. Submission as a new amendment ST by the QP is mandatory.

Record structural plans are to be submitted together with the certification by QP in C3 or C3-GBW form within 28 days of completion of piling works or on completion for all other structural works.

## **1.4** Simplified Terms Used in This E-Guide



AC	The accredited checker appointed to undertake the checking of the structural works.
AC(Geo)	The specialist accredited checker appointed to undertake the checking of the geotechnical aspects of underground building works.
Design QP	The qualified person appointed to prepare the plans of the structural works.
Design QP(Geo)	The qualified person appointed to prepare the plans of the geotechnical aspects of underground building works.
Supervising QP	The qualified person appointed to supervise the structural works.
Supervising QP(Geo)	The qualified person appointed to supervise the geotechnical aspects of underground building works.

## **1.4 Simplified Terms Used in This E-Guide**



#### GBW Geotechnical Building Works.

- C1 form QPCTPW form (Certificate of Supervision of Piling Works and Notice of Completion by the Qualified Person for Structural Works).
- C1-GBW form QPCTPW-GBW (Certificate of Supervision of Piling Works and Notice of Completion for Geotechnical Building Works).
- C2 form QPCTSSW form (Certificate of Supervision of Structural Works by the Qualified Person for Structural Works).
- C2-GBW form QPCTSSW-GBW (Certificate of Supervision of Geotechnical Building Works).

C3 form CTASST form (Submission Certificate of Record Structural Plans / Calculations).

C3-GBW form CTASST-GBW form (Submission Certificate of Record Geotechnical Building Plans / Calculations).

(Click anywhere to advance)

2.2.7

2.2.1 C1 Form (QPCTPW Form)
2.2.2 C2 Form (QPCTSSW Form)
2.2.3 C3 Form (CTASST Form)
2.2.4 C1-GBW Form (QPCTPW-GBW Form)
2.2.5 C2-GBW Form (QPCTSSW-GBW Form)
2.2.6 C3-GBW Form (CTASST-GBW Form)

**Overall View of the Locations for Each C-Form Folder** 

**2.1 Graphical User Interface** 

## 2. Brief Introduction to ESPro (Only C-Forms & Record Plans Submission Related)

**Locations of C-Forms Folders** 

2.2

File Edit Tool View Help





File Edit Tool View Help











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File Edit Tool View Help



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## 

# 3.1 Making a Submission

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Authority

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able and fri

SUBMISSION CERTIFICATE OF

[Regulation 18(3) of the Buil

Building and Construction 🥢



## 3.2 Sending a Correspondence

## 3.3 Completing C-Forms



ENDORSEMENTS ON RECORD CERTIFICATE TO BE ENDO PERSON FOR STRI

## 3.4 Completing Endorsement Forms

File Edit Tool View Help




















































# **3.3 Completing C-forms**

# (Click on any button to start)



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

6. This field can be edited to provide a more detailed description of the project.



		-	
Description of building works	6.		10
Location Description	7.	Return to C-Forms Sub - Me	mu
		Return to Submissions Sub - Me	enu i

- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove

STs.

12a & 12b.

To declare as full or partial completion depending on works status for the indicated STs only.

- 12b(i). Mandatory field when partial completion is declared in Step 12b. To indicate the works that are completed and outstanding.
- 13. Optional field. To leave any remarks regarding the submission.

BCA-BE-QPCTPW_PAGE1	
Building and Construction We shape a safe, high quality, sustainable a Print this page	Authority
Structural Plan of Project	8. 🔻 9.
Ref. No. 10. 11.	Note : STNE, STAM, STAA or SAAM is for plans with ST Numbers issued by BCA earlier.
Add Delete	<b>2</b> a.
Building Works covered	Full completion of works.
under the above approved Structural Plan 1	<ul> <li>Partial completion of works as describe below.</li> <li>2b.Final submission will be made upon full completion of works.</li> </ul>
	12b(i).
Remarks	13.
BCA-BE-QPCTPW - May 2012 Ver 3	Return to C-Forms Sub - Menu Return to Submissions Sub - Menu
	Keturn to Jubrinstons Jub - Menu

14. To select the name of Supervising **QP** who prepares the submission from the drop down menu.

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# 15 to 24.

**Once the Supervising QP's** name is being selected in Step 14, all other fields on the QP's particulars are automatically populated.

CA-BE-QPCTPW_PAGE2			8
Print this page			
Section I Particula	rs of Qualifie	d Person	*
Name	14.	Please Select	
PE Registration No.	15.		
Firm Name	16.		
UEN	17.		ш
Address	18.		
Telephone No.	19.		
Extension No.	20.		
Handphone No.	21.		
Pager No.	22.		
Fax No.	23.	Return to C-Forms Sub - Men	7
Email Address	24.	Return to Submissions Sub - Men	Τ.





- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

6. This field can be edited to provide a more detailed description of the project.



7.

Return to C-Forms Sub - Menu

**Return to Submissions Sub - Menu** 

Location Description

- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove

STs.

- 12a & 12b.
  - To declare as full or partial completion depending on works status for the indicated STs only.
- 12b(i). Mandatory field when partial completion is declared in Step 12b. To indicate the works that are completed and outstanding.
- 13. To select if barrier works is included in the submission.
- 14. Optional field. To leave any remarks regarding the submission.



15. To select the name of Supervising **QP** who prepares the submission from the drop down menu.

### 16 to 25.

**Once the** Supervising QP's name is being selected in Step 15, all other fields on the QP's particulars are automatically populated.

BCA-BE-QPCTSSW_PAGE2	
Print this page	
Section I Particul	lars of Qualified Person
Name	15. Please Select
PE Registration No.	16.
Firm Name	17.
UEN	18.
Address	19.
Telephone No.	20.
Extension No.	21.
Handphone No.	22.
Pager No.	23.
Fax No.	24. Return to C-Forms Sub - Menu
Email Address	25. Return to Submissions Sub - Menu

Return to Submissions Sub - Menu

26. To tick in the	BCA-BE-QPCTS	SW_PAGE2				
<ul> <li>checkbox to declare</li> <li>Supervising QP had</li> <li>supervised the</li> <li>structural works</li> <li>under indicated STs.</li> </ul>		at this page				
"HDB Works", "JTC		eclaration by	Qualified	Person		
Works", "LTA(rail) Works" or "All Other Works".	l.1	8(1)(b) or 11( have supervise completed in the building r	(1)(d)(ii) of th sed the strue accordance egulations, th	e Building Contro ctural works and with the provision he approved deta	appointed under section of Act, hereby certify that I that such works have been ns of the Building Control Ac ailed structural plans and des h they were approved.	
	F	roject Categ	ory Selecti	on		
	Pro	oject Category	27.	Plea	ase Select	<b>•</b>



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

6. This field can be edited to provide a more detailed description of the project.



- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs.

- 12a & 12b. To declare as full or partial completion depending on works status for the indicated STs only.
- 12b(i). Mandatory field when partial completion is declared in Step 12b. To indicate the works that are completed and outstanding.
- 13. Optional field. To leave any remarks regarding the submission.

Building and Construction we shape a safe, high quality, sustainable	Authority and friendly bull environment.
Print this page Structural Plan of Project Ref. No. 10. 11. Add Delete	8. 9. Note : STNE, STAM, STAA or SAAM is for plans with ST Numbers issued by BCA earlier.
Building Works covered under the above approved	<ul> <li>Full completion of works.</li> <li>Partial completion of works as describe below.</li> <li>2b. Final submission will be made upon full completion of works.</li> <li>12b(i).</li> </ul>
Remarks	13.

14. To select the name of Design QP who prepares the submission from the drop down menu.

# 15 to 24.

Once the Design QP's name is being selected in Step 14, all other fields on the QP's particulars are automatically populated.

Fax No.

Email Address



23.

24.

Return to C-Forms Sub - Menu

Return to Submissions Sub - Menu

- 25a. To declare if the submission include record structural plans which shows minor deviations from the approved plans.
- 25b. To declare if there are no departures or deviations from the approved plans under the STs indicated. In this case, record structural plans need not be submitted.
- 26. To declare either "HDB Works", "JTC Works", "LTA(rail) Works" or "All Other Works".

**Reminder:** 

For piling works, regardless of radio button in Step 25a or 25b is selected, all record piling plans must be submitted.



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

6. This field can be edited to provide a more detailed description of the project.



- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs.

- 12a & 12b. To declare as full or partial completion depending on works
  - status for the indicated STs only.
- 12b(i). Mandatory field when partial completion is declared in Step 12b. To indicate the works that are completed and outstanding.
- 13. Optional field. To leave any remarks regarding the submission.



14. To select the name of Supervising **QP** who prepares the submission from the drop down menu.

## 15 to 24.

**Once the Supervising QP's** name is being selected in Step 14, all other fields on the QP's particulars are automatically populated.

BCA-BE-QPCTPW-GBW_PAGE2		
Print this page		
Section I	Particulars of Quali	fied Person for Structural Works
Name	14.	Please Select
PE Registratio	on No. <b>15.</b>	
Firm Name	16.	<u>ې</u>
UEN	17.	
Address	18.	*
Telephone No	p. <b>19.</b>	
Extension No.	. 20.	
Handphone N	lo. <b>21.</b>	
Pager No.	22.	
Fax No.	23.	Return to C-Forms Sub - Menu

24.

Email Address

Return to Submissions Sub - Menu







28 to 37. Once the Supervising QP(Geo)'s name is being selected in Step 27, all other fields on the QP's particulars are automatically populated.



To declare the completion date of piling works.		
To tick in the checkbox to declare Supervising QP(Geo) had supervised the piling works under	Print this page Declaration By Qualified Person for Geotechnical Aspects of Geotechnical Building Works	
indicated STs. To select either "HDB Works", "JTC Works", "LTA(rail) Works" or "All Other Works".	<ul> <li>I.1 I, the Qualified Person for geotechnical aspects of geotechnical building works appointed under section 8(1)(d)(ii) or 11(1)(d)(iii) (B) of the Building Control Act, hereby certify that geotechnical aspects of piling works for geotechnical building works as carried out under my supervision have been completed on 38. (DD/MM/YYYY) in accordance with the approved set of piling plans/calculations for geotechnical building works, together with the conditions under which they were approved and all the relevant provisions stipulated under the Building Works.</li> </ul>	
	Project Category       Selection         Project Category       40.	

38.

39.

40.



- This field is automatically filled in with that day's date once the form is opened up.
   To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



- 10 0
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To declare the reasons to engage Supervising QP(Geo) for the submitted STs. Do note that more than one checkboxes can be ticked.

7 & 8.

These fields are the project details which are automatically filled in and cannot be edited.

	PCTSSW-GBW_PAGE1				
4	Building and Construction	Authority			
	Print this page				
	Particulars of Geotechr relates to the following	nical Building Works to which this Certificate			
4.	Any excavation or other b	meter, width or height of more than 2 meters			
	(i) a casison, cofferdam, trench, shaft or well with a depth of more than 6 meters				
5.	Any building works for constructing, altering or repairing any earth retaining structure in or for a trench, ditch, shaft or well with a depth or height of more than 6 meters				
6.	All type of foundation works for buildings of 30 or more storeys				
	Project Reference Number	7.			
	Project Title	8.			
		Return to C-Forms Sub - Men			
L		Return to Submissions Sub - Men			
8 10	BCA-BE-QPCTSSW-GBW_PAGE1				
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<ul> <li>9 &amp; 10.</li> <li>These fields are the project details which are automatically filled in and cannot be edited.</li> <li>1. To select "ST" unless it differs from approval.</li> <li>12. To indicate what are the STs under this certification.</li> <li>13 &amp; 14. To add or remove STs.</li> </ul>	Building and Construction We shape a safe, high quality, sustainable	Authority built environment.			
from approval. 2. To indicate what are the STs under this certification. 3 & 14.	Description of building works	9.			
STs.	Location Description	10.			
	Structural Plan of Project Ref. No. 13. 14. Add Delete	11.     I2.       Note : STNE, STAM, STAA or SAAM       is for plans with ST Numbers issued by BCA earlier.			



15a & 15b.	BCA-BE-QPCTSSW-GBW_PAGE1
To declare as full or partial completion depending on works status for the indicated STs only.	Building and Construction Authority
15b(i). Mandatory field when partial completion is declared in Step	We shape a safe, high quality, sustainable and friendly built environment.  Print this page  ISa.  Full completion of works.
15b. To indicate the works that are completed and outstanding.	Building Works covered under the above approved Structural Plan 15b.Final submission will be made upon full completion of works.
<ul> <li>16. To select if barrier works is included in the submission.</li> <li>17. Ontional field. To</li> </ul>	15b(i).
17. Optional field. To leave any remarks regarding the submission.	Barrier works are included 16.
	Remarks 17.
	BCA-BE-QPCTSSWGBW - JUL 2013 Ver Return to C-Forms Sub - Menu Return to Submissions Sub - Menu

18. To select the name of Supervising **QP** who prepares the submission from the drop down menu.

#### 19 to 28.

Once the **Supervising QP's** name is being selected in Step 18, all other fields on the QP's particulars are automatically populated.

Fax No.

Email Address

#### 00 X BCA-BE-QPCTSSW-GBW\_PAGE2 0 2 🖬 日 83 2 御 Print this page Particulars Of Qualified Person for Structural Works Section I 18. Name Please Select 19. PE Registration No. 20. Firm Name UEN 21. 22. Address 23. Telephone No. Extension No. 24. Handphone No. 25. Pager No. 26. Return to C-Forms Sub - Menu

27.

28.

Return to Submissions Sub - Menu





30. To select name of Supervising QP(Geo) who prepares the submission from the drop down menu.

31 to 40.

Once the Supervising QP(Geo)'s name is being selected in Step 30, all other fields on the QP's particulars are automatically populated.

BCA-BE-QPCTSSW-GBW\_PAGE2 ABC ABC 🗃 🖬 🔒 61 2 0 4 Print this page Section II Particulars Of Qualified Person for Geotechnical Aspects of Geotechnical Building Works Name 30. Please Select 31. PE Registration No. Firm Name 32. UEN 33. Address 34. Telephone No. 35. Extension No. 36. Handphone No. 37. Pager No. 38. Return to C-Forms Sub - Menu 39. Fax No. Return to Submissions Sub - Menu 40. Email Address

41. To tick in the	BCA-BE-QPCTS	SSW-GBW_PAGE2	_		_	l	
checkbox to declare Supervising QP(Geo) had supervised the GBW works under indicated STs.		nt this page					
42. To select either "HDB Works", "JTC Works", "LTA(rail)		eclaration By Geotechnic		Person for Geo Works	technical Aspe	ects	Ξ
Works" or "All Other Works".	I.1	works appoint Control Act, h of geotechnic in accordance regulations, th	ted under set lereby certify al building we e with the pro he approved	geotechnical aspection 8(1)(d)(ii) or that I have supervorks and that such ovisions of the Buil detailed of the ge ons and the condition	11(1)(d)(iii) (B) of rised the geotech works have been ding Control Act, otechnical buildin	the Building nical aspects n completed the building ng works	41.
	P	Project Catego	ory Selectio	on			
	Pro	oject Category	42.	Pleas	e Select		<b>•</b>



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



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These fields are the project details which are automatically filled in and cannot be edited.

6. This field can be edited to provide a more detailed description of the project.

BE-CTASST-GBW_PAGE1	
Building and Construction We shape a safe, high quality, sustainable a Print this page	Authority
Particulars of Geotechi relates	nical Building Works to which this Certificate
Project Reference Number	4.
Project Title	5.
Description of building works	6.
Location Description	7. Return to C-Forms Sub - M Return to Submissions Sub - M

- 0 X BCA-BE-CTASST-GBW\_PAGE1 8. To select "ST" 2 🗷 🔒 0 93 unless it differs from approval. 9. To indicate what are Building and Construction Authority the STs under this certification. We shape a safe, high quality, sustainable and friendly built environment 10 & 11. Print this page To add or remove STs. Structural Plan of Project 8. 9. • Ref. No. 12a & 12b. Note : STNE.STAM.STAA or SAAM To declare as full or is for plans with ST Numbers issued by BCA earlier. partial completion 11. 10. depending on works status for the Add Delete 12a. indicated STs only. Full completion of works. Building Works covered 12b(i). Mandatory under the above approved field when partial Partial completion of works as describe below. completion is Structural Plan 12b. Final submission will be made upon full completion declared in Step of works. 12b. To indicate the works that are 12b(i). completed and outstanding. 13. Optional field. To 13. Remarks leave any remarks regarding the submission. Return to C-Forms Sub - Menu Return to Submissions Sub - Menu BCA-BE-CTASST-GBW - JUL 2013 Ver 1.0

14. To select the name of Design QP who prepares the submission from the drop down menu.

#### 15 to 24.

**Once the Design** QP's name is being selected in Step 14, all other fields on the QP's particulars are automatically populated.

2 BCA-BE-CTASST-GBW_PAGE2		
Print this page		
Section I Partic	ulars of Qualified Person for St	ructural Works
Name	14. Please Se	lect 🔻
Registration No.	15.	
Firm Name	16.	Č.
UEN	17.	
Address	18.	*
Telephone No.	19.	
Extension No.	20.	
Handphone No.	21.	
Pager No.	22.	
Fax No.	23. Return to	C-Forms Sub - Menu
Email Address	24. Return to Su	bmissions Sub - Menu

25a. To declare if the submission include record structural plans which shows minor deviations from the approved plans.

25b. To declare if there are no departures or deviations from the approved plans under the STs indicated. In this case, record structural plans need not be submitted.

**Reminder:** 

For piling works, regardless of radio button in Step 25a or 25b is selected, all record piling plans must be submitted.





26. To select name of Design QP(Geo) who prepares the submission from the drop down menu.

#### 27 to 36.

Once the Design QP(Geo)'s name is being selected in Step 26, all other fields on the QP's particulars are automatically populated.



36.

Email Address

Return to Submissions Sub - Menu

- 37a. To declare if the submission include record GBW plans which shows minor deviations from the approved plans.
- 37b. To declare if there are no departures or deviations from the approved plans under the STs indicated. In this case, record GBW plans need not be submitted.
- 38. To select either "HDB Works", "JTC Works", "LTA(rail) Works" or "All Other Works".

Reminder:

For piling works, regardless of radio button in Step 25a or 25b is selected, all record piling plans must be submitted.

#### BCA-BE-CTASST-GBW PAGE3 🛎 🖾 日 ABC 0 Print this page Declaration By Qualified Person for Geotechnical Aspects of Geotechnical Building Works I, the Qualified Person for geotechnical aspects of geotechnical building works 1.1 appointed under section 8(1)(d)(i) or 11(1)(d)(iii)(A) of the Building Control Act confirm that:a) a) - the record detailed geotechnical building works plans and calculations 37a, which show the departures or deviations from the approved plans are submitted herewith all minor structural amendments (i.e. immaterial changes) are highlighted and concise description of these amendments are shown in the record detailed geotechnical building works plans and calculations all structural amendment works have been carried out under my supervision 37b. b) - there are no departures or deviations from the approved plans. **Project Category Selection** 38. Ple Return to C-Forms Sub - Menu Project Category Return to Submissions Sub - Menu

# 3.4 Completing Endorsement Forms 🔒 🗖 🏳 🕨

(Click on any button to start)

### (Required only when there are record structural plans to be submitted)



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited. BCA-BE-ENABOP\_PAGE1

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- 6. This field can be edited to provide a more detailed description of the project.
- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs. Building and Construction Authority We shape a safe, high quality, sustainable and triendly built environment Print this page

HBC HBC

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Particulars Of Application Project Reference Number 4. 5. Project Title 6. Description of Building Works 7. Location Description Structural Plan No(s) 8.  $\mathbf{v}$ 9. Note : STNE, STAM, STAA or SAAM is for plans with BP Numbers issued by BCA earlier **Return to Endorsement Forms Sub - Menu** 10. 11. Delete Add Return to Submissions Sub - Menu

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12. To select the name of **Design QP** who submits the record structural plans from the drop down menu.

#### 13 to 21.

Once the Design QP's name is being selected in Step 12, all other fields on the QP's particulars are automatically populated.



Name	12.	Please Select	
Registration No.	13.		3
Firm Name	14.		
UEN	15.		
Address	16.		
Telephone No.	17.		
Extension No	18.		
Handphone No.	19.		
Pager No.	20.		
Fax No.	21. Return	to Endorsement Forms	Sub - N



27. To indicate the project reference with the ST number of the approved plans which the record structural plans are originated from.

- 29. To indicate the number of record structural plans submitted.
- 31. To indicate the number of pages of calculations submitted based on the record structural plans.
- 28, 30 & 32. To tick in the checkboxes for declaration.
- 33. Optional field. To leave any remarks regarding the record structural plans and related documents.

BCA-BE-ENABQ	P_PAGE	2	
	at this pa		
	2	I further certify that these detail structural plans and design calculations are in reference to Project Reference No: <b>27.</b>	28.
	3	Total number of structural plans submitted       : 29.         Total number of pages of design calculations in this book.         31.	32.
	emark 33.	<s :<="" td=""><td>^ E</td></s>	^ E
			Ŧ



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

- These fields are the project details which are automatically filled in and cannot be edited.
- 6. This field can be edited to provide a more detailed description of the project.
- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs. Building and Construction Authority

HEY ABS

We shape a safe, high quality, sustainable and friendly built environment.

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CA-BE-ENABPPAC\_PAGE1

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Particulars Of Applicati	Particulars Of Application			
Project Reference Number	4.			
Project Title	5.			
Description of Building Works	6.			
Location Description	7.			
Structural Plan No(s)	8. 9. Note : STNE,STAM,STAA or SAAM			
10. 11. Add Delete	<sup>is</sup> Return to Endorsement Forms Sub - Me Return to Submissions Sub - Me			

- - X-

12. To select the name of AC who checked the Design QP's submitted record structural plans from the drop down menu.

#### 13 to 22.

Once the AC's name is being selected in Step 12, all other fields on the AC's particulars are automatically populated.



Name	12. Please Select	
Registration No.	AC No: 13.	
	ACO No: 14.	
Firm Name	15.	4
UEN	16.	
Address	17.	
Telephone No.	18.	
Extension No	19.	
Handphone No.	20.	
Pager No.	21.	
Fax No	Return to Endorsement Forms Sub -	M

23. To input the AC's	
email address.	

24 & 26. To input the AC's name.

25 & 27.

To tick in the checkboxes for declaration.



28. To indicate the	CA-BE-ENABPPAC_PAGE2	- 0 X
project reference with the ST numbers of the approved plans which the record structural plans are originated from.	Print this page	
29, 31 & 32. To tick in the checkboxes for declaration.	2. I further certify that these detailed structural plans and design calculations are in reference to Project Reference No: 28.	□ 29. 31.
30. To indicate the number of record	3. Total number of structural plans checked : 30.	51.
structural plans submitted. 33. Optional field. To	4. I hereby declare that I have no professional or financial interest in the building works shown in the plans as defined in Section 18 of the Building Control Act (Cap 29).	32.
give any remarks regarding the record	Remarks :	
structural plans and related documents.	33.	T T



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

- 6. This field can be edited to provide a more detailed description of the project.
- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs. Building and Construction Authority

ABC ABC

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CA-BE-ENABGBWQP\_PAGE1

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Particulars Of Application	on
Project Reference Number	4.
Project Title	5.
Description of Building Works	6.
Location Description	7.
Structural Plan No(s)	8. 🔻 9.
10. 11.	Note : STNE,STAM,STAA or SAAM is for plans with ST Numbers issued by BCA eachier Return to Enclorsement Forms Sub - Mer
Add Delete	Return to Submissions Sub - Mer

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12. To select the name of Design QP(Geo) who submits the record GBW plans from the drop down menu.

#### 13 to 20.

Once the Design QP(Geo)'s name is being selected in Step 12, all other fields on the QP's particulars are automatically populated.





25. To indicate the	DCA-DI
project reference	🗳 🖻
with the ST	
numbers of the	
approved plans	
which the record	
GBW plans are	
originated from.	-
26, 28 & 30.	
To tick in the	
checkboxes for	

al no

27. To indicate the number of record GBW plans submitted.

declaration.

- 29. To indicate the number of pages of calculations submitted based on the record GBW plans.
- 31. Optional field. To leave any remarks regarding the record GBW plans and related documents.

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Print this page			
	r certify that these geotechnical calculations are in reference to		26.
3. Total n	umber of geotechnical building plans submitted	: <b>27.</b>	28.
calcula	umber of page of design tions in this book	: <b>29.</b>	30.
Remarks: 31.			E



- 1. This field is automatically filled in with that day's date once the form is opened up.
- 2. To select "BCA" from the drop down menu.
- 3. Once "BCA" is selected in Step 2, this field is automatically filled in with BCA's address.



#### 4, 5 & 7.

These fields are the project details which are automatically filled in and cannot be edited.

- This field can be edited to provide a more detailed description of the project.
- 8. To select "ST" unless it differs from approval.
- 9. To indicate what are the STs under this certification.

10 & 11. To add or remove STs.



12. To select the name of AC(Geo) who checked the Design QP(Geo)'s submitted record GBW plans from the drop down menu.

13 to 20.

Once the AC(Geo)'s name is being selected in Step 12, all other fields on the AC's particulars are automatically populated.



17.

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19.

**Return to Endorsement Forms Sub - Menu** 

Return to Submissions Sub - Menu

Telephone No.

Handphone No.

Email Address

BCA-BE-ENABUBWAC - DEC 2012 Ver 1.1

Fax No.

#### 0 X BCA-BE-ENABGBWAC PAGE2 21 & 23. ABC ABC 🛩 🖾 🔛 **a** 🗉 0 7. To input the AC(Geo)'s name. 22 & 24. To tick in the checkboxes for Print this page declaration. Declaration by Specialist Accredited Checker A) Certification of Record Plans for Specialist AC 21. being a registered specialist accredited checker, certify that to the best of my knowledge and belief, the record plans do not show any 22. inadequacy in the geotechnical aspects relating to the geotechnical Ξ building works carried out in accordance with those plans. B) Standard endorsement for Specialist AC 23. being a registered specialist accredited checker, hereby certify that I have in accordance with the Building Control (Accredited Checkers and Accredited Checking Organisations) Regulations 24. carried out an evaluation, analysis and review of the plans of the geotechnical building works attached, and to the best of my knowledge and belief the plans do not show any inadequacy in the geotechnical aspects relating to the geotechnical building works if carried out in accordance with those plans.

Return to Endorsement Forms Sub - Menu Return to Submissions Sub - Menu

uation report nitted. indicate the ect reference.	Print this pa		
3. ck in the kboxes for aration. otional field. To any remarks rding the record	2	I append my Evaluation Report (comprising <b>25.</b> pages) as well as the analyses and calculations I have performed in carrying out the evaluation, analyses and review of the geotechnical reports and design calculations are in reference to Project Ref. No.: <b>26.</b>	27.
plans and ed documents.	3	I hereby declare that I have no professional or financial interest in the geotechnical building works shown in the plans as defined in section 18 of the Building Control Act (Cap 29).	28.
	Remai	rks:	
		29.	

25.

26.

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29.



# **4. General Pointers**

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Here is a list of categorised general pointers to help you in preparing for C-forms and record structural plans submissions.

- 4.1 Common Mistakes that Caused a Submission to be Superseded.
- 4.2 Common Mistakes that Caused a Submission Requiring Revision or Addition of Documents to be Submitted via Correspondence.
- 4.3 Additional Pointers for C-Forms.
- 4.4 Additional Pointers for Record Structural Plans, Endorsement Forms and Calculation Files.
- 4.5 for Declaration in Section 1.2 of STAPPV01 Form During ST Application

(Click anywhere to advance)

# 4.1 <u>Common Mistakes that Caused</u> <u>a C-Form Submission to be Superseded</u>



- When there is more than one C-Form in a submission.
- When a C-Form is submitted via correspondence.
- When a C-Form is not encrypted.
- When a C-Form is encrypted by a wrong QP.
- When a GBW C-Form is encrypted by either one of the QP only.
- When one of the ST declared is already withdrawn, already rejected, not approved, or not submitted for approval yet.
- When a submission is only partially completed for the declared STs, but the C-Form is declared as full completion.
- When a C3 or C3-GBW submission is submitted with record structural plans, which implies minor deviations, but is declared as no deviation.
- When none of the radio buttons is selected in an option field.
- When a check box is not ticked, implying that the QP did not agree to the clause stated in the declaration field.
- When numerous documents are required to revise via correspondence.

# 4.2 <u>Common Mistakes that Caused a</u> <u>C-Form Submission Requiring Revision</u>



## or Addition of Documents to be Submitted via Correspondence.

- Any record structural plans, endorsement forms, calculation files etc..., which are not encrypted, partially encrypted, or encrypted by a wrong QP.
- Any record structural plans, endorsement forms, calculation files etc..., which are missed out during the C-Form submission.
- Any kind of mistake that is made in the record structural plans, endorsement forms, calculation files etc... The common mistakes are listed in Section 4.4.
- When the QP is required to submit a declaration memo for a ST due to previously wrongly declared type of works in the STAPPV01 form.

## 4.3 Additional Pointers for C-Forms



- For submissions of C-forms with no departures or deviations from approved plans,.
  - Endorsement forms are not required to be submitted.
    - If the unnecessary submitted endorsement forms contain mistakes, revision is still required via correspondence.
  - Record structural plans are not required to be submitted for all structural works.
     However, record piling plans is still required to be submitted.
  - Grouping of multiple STs with similar completion status (full or partial completion) in one C-form submission is encouraged.
    - E.g. if there is no departures or deviations for the structural works in ST01, ST02, ST03, ST04 and ST05, there is no need to submit separate C-Forms for each of them. One C2 Form and C3 Form, indicating all the STs, in two separate submissions is sufficient.

# 

- Record structural plans, endorsement forms, calculation files etc..., <u>MUST</u> be digitally signed or encrypted by the Design QP, AC, Design QP(Geo) and AC(Geo) whenever applicable, with reference to the approved Structural Plans (STs).
- Record structural plans <u>MUST</u> be re-numbered according to the total number of record structural plans submitted for the indicated STs in the C-Form.
- Number of record structural plans submitted <u>MUST</u> tally with the QP's and AC's declaration on the 1st and last plan, endorsement forms and calculation files.
- The submitted ST numbers <u>MUST</u> be included at the top right hand corner of the record structural plans, with respect to their original approved ST Plans.
- Filenames of record structural plans should be named as close as to that of their respective approved plans.
  - E.g. if the approved plan filename is "PP01.pdf", the record piling plan filename could be "PP01(AB).pdf", "PP01a.pdf" etc...
- A drawing list should be provided to list all record structural plans submitted.

# 4.4 <u>Additional Pointers for Record</u> <u>Structural Plans, Endorsement Forms,</u> <u>Calculation Files</u>



- If the plans submitted are for information only, do not declare as plans submitted.
  - These plans will not be considered as record plans.
  - These plans are required to be endorsed accordingly as for information only.
- For record piling plans submissions,
  - C3 form or C3-GBW form should be declared as minor deviations if either the actual piles penetration depths or piles eccentricities is not in approved plans.
  - Listing of the record piling data such as pile type, pile size, pile number, borehole reference, zone, design penetration depth, actual penetration depth, design socketing/embedment depth and actual socketing/embedment depth, whichever applicable, in a table format is preferred.
  - Ultimate Load Test (ULT) and Working/Static Load Test (SLT) reports should bear Supervising QP's endorsement and submitted with C1 or C1-GBW form.
- Number of pages of calculation file submitted <u>MUST</u> tally with the QP's declaration on the 1st and last plan, endorsement form and calculation file.

# 4.5 <u>Note for Declaration in Section 1.2 of</u> <u>STAPPV01 Form During ST Application</u>



The QP is required to declare in the Application for Approval of Structural Plans (STAPPV01 form) on the type of works involved during the ST application. The type of works declared will trigger the following required C-Forms automatically by the processing system.

Type of Works Declared in Section 1.2 of STAPPV01 Form		Type of	Required	Required C-Form Generated       C3     C1-GBW     C2-GBW	nerated	
Type of works beclared in Section 1.2 of STAFF VOI Form	C1	C2	C3	C1-GBW	C2-GBW	C3-GBW
Piling Works						
	$\checkmark$		$\checkmark$			
Piling Works, with declaration in Section 1.4 as > 30 storey						
				$\checkmark$		$\checkmark$
Other Structural Works (Site Formation, Footing/Raft						
Foundation, Basement, Tunnel/Sewer Works, ERSS, Super-		$\checkmark$	$\checkmark$			
Structural Works, Fixings for Securing Cladding and Barrier)						
★ Earth retaining structure / Excavation for Caisson, Cafferdam,						
trench etc (ERSS), with declaration "Depth >6m"					$\checkmark$	$\checkmark$

Please note that all the required C-Forms had to be submitted and cleared for each ST, before TOP/CSC application can be successfully obtained.

# 4.5 <u>Note for Declaration in Section 1.2 of</u> <u>STAPPV01 Form During ST Application</u>



BCA-BE-STAPPV01_PAGE2					
		) =			
	Print	this page	Fa	ige 2 of 5	
1.2	1.2	Type of Works	Site Formation		*
		Piling Works			
			Footing/Raft Foundation		
			Basement No. of basement level Total depth (metre)		
			Tunnel/Sewer works Please Select		
		(i)	is erected.		
	(ii	● The earth retaining structure will not be removed.			

For ★ERSS, please note that the following declaration will determine if C-Form is required:

- If item (i) is selected,
   C-Form is not
   required.
- If item (ii) is selected, C-Form is required.

For declaration in item (ii), if it is declared as "Depth: >6m" as circled in red, C2-GBW and C3-GBW Form submission is required instead.