



BS6349 in Action

Navigating the Codes

Interactive Workshop

Chairman – Steve Osborn

BS 6349 in Action
Navigating the Code Series
Steve Osborn

Interactive workshop



bsi.

This is a chance for a “guided”
exploration round parts of the BS 6349
series.

No expertise required

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Navigating the Code Series
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All have four sections:-

- Brief instructions



BS 6349: “Maritime Works”, Advancing on Firm Foundations

WORKSHOP TASKS

MONDAY, 13TH FEBRUARY 2017

General note:- It is not intended that any participants in this exercise should be experienced in the design of these facilities. All that is required is:-

- curiosity to identify which of the BS 6349 codes of practice are relevant;
- to see what clauses seem to be of greatest interest to you;
- to find out whether these clauses appear to you to provide useful advice
- if so, comment on it. If not see if you can suggest how it could be improved.

All have four sections:-

- Brief instructions
- Scenario Description

Task 1 - Quay walls and jetties

You have been asked to design a container berth in the Indian subcontinent in a location with fairly high seismic loadings. The quay wall is for container vessels but not of the latest generation. The quay wall has ship to shore rail mounted container cranes.

The soil strata at depth are judged to be reasonably soft, so it is expected that an embedded wall structure or else an open piled jetty with a rock slope will represent suitable designs. Examples of such designs are illustrated (only to give an understanding of the problems, not specifically to illustrate the issues that you might wish to consider).

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All have four sections:-

- Brief instructions
- Scenario Description
- Some pretty pictures



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All have four sections:-

- Brief instructions
- Scenario Description
- Some pretty pictures
- Some suggestions to guide you

You are encouraged to think about the following issues:-

- | | |
|--|---|
| 1. Developing appropriate load combinations | See whether Part 1.2 helps |
| 2. Identifying the appropriate seismic approach and AISC | See whether Part 1.2 helps (also EC8) |
| 3. Construction issues for embedded quay walls | See whether Part 2 helps |
| 4. Construction issues for piled jetties | See whether Part 2 helps |
| 5. Tolerances for crane rails | See whether Part 2 helps |
| 6. Dealing with scour | See whether Part 1.2 Clause 29 helps |
| 7. Defining design working life | See whether Part 1.1 Section 17 helps |
| 8. Recording the design intentions | See whether Part 1.1 (e.g. clause 13.2) |

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You all have numbers on your badge:-

- That tells you the group that you are assigned to
- Amazingly we have been able to match your selection pretty well

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The groups are:-

- 1 Quay walls and jetties
- 2 Quay walls and jetties
- 3 RoRo and Ferry Berths
- 4 Dredging and reclamation
- 5 Port layout and planning
- 6 Not needed
- 7 Not needed
- 8 Not needed
- 9 Not needed
- 10 Not needed

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The procedure is:-

- I will call all group convenors to the front.
- Each group will be called down one by one.
- Each group will go to the location – it is going to be a standing workshop.
- At the location you will find a flip chart and a “poser table” (i.e. about elbow height)

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The procedure is:-

- Your convenor gets the poser table – he has a laptop with all BS 6349 standards plus a few additional standards and PIANC reports.
- Your convenor will first ask for a volunteer to be spokesperson.
- Then discuss and get your convenor to display whichever part of the standards you wish.
- If you are lucky, your convenor also has the skill to type your conclusions onto a Powerpoint presentation – sorry can't guarantee your luck!

Interactive workshop



The procedure is:-

- The session is no longer than 30 minutes
- At the end, the spokesperson gets the flipchart and, if done, the workshop presentation on the laptop.
- The coffee break follows
- During the break the spokesperson will need to prepare for a 6 minute presentation in the plenary session (supported by the convenor if needed)
- By the end of the coffee break the spokesperson needs to be in the Godfrey Mitchell Theatre to present when called.

Interactive workshop



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All we want is:-

- Your comments on what you came across during this “exploration”
- Whether you found the advice useful
- What was particularly good
- What was particularly bad.
- Can you think of items that ought to be included?
- Can you think of improvements, or pointers to improvements?

CONVENORS, COME DOWN!

LET'S GET GOING!