Version 1.0

Calculation Model Design & Check Certificate

Project:		Number:	
Area:			
Calculation:			

The design organisation confirms that:

1) the calculation model has been executed in line with *Calculation models: guidance for the use of software for engineering calculations* (IStructE), the design brief model document, and the calculation package meets the acceptance criteria,
2) the Designer has self-checked the calculation package,
3) the Technical Manager has reviewed the Model Document and calculation package.

Design organisation:			
Supervised Engineer/Designer:			
Qualifications[1]:			
Signed:		Date:	
Technical Manager:			
Qualifications[1]:			
Signed:		Date:	

The check organisation confirms that:

1) checking has been executed in line with *Calculation models: guidance for the use of software for engineering calculations* (IStructE),
2) data is accurate, complete, and appropriate,
3) methods used are suitable and correctly applied,
4) results are consistent with inputs and expectations,
5) outputs are clear and aligned.

Check organisation:			
Checking Engineer:			
Qualifications[1]:			
Signed:		Date:	

Calculation Model Design & Check Certificate (continued)

Checking category (tick appropriate):			
Category 0 ☐	Category 1 ☐	Category 2 ☐	Category 3 ☐

Checking independence (tick appropriate):			
Same person as designer ☐	Same design team ☐	Same organisation ☐	External organisation ☐

Information provided to checker and when (tick appropriate):	Provided from beginning	Provided upon completion of check
Design brief	☐	☐
Drawings and specifications	☐	☐
Model document	☐	☐
Analysis	☐	☐
Inputs	☐	☐
Assumptions	☐	☐
Outputs	☐	☐
Design	☐	☐
Inputs	☐	☐
Assumptions	☐	☐
Outputs	☐	☐
Details	☐	☐

Level of detail carried out for checks (tick appropriate):	Process[2]	Spot checks on critical areas[3]	Basic-level checks[4]	Full detailed-level checks[5]
Design brief	☐	☐	☐	☐
Drawings and specifications	☐	☐	☐	☐
Model document	☐	☐	☐	☐
Analysis	☐	☐	☐	☐
Design	☐	☐	☐	☐
Details	☐	☐	☐	☐

1 CEng in structural engineering
2 Process: The checking engineer has reviewed the overall design process and confirms that all required analysis and calculations have been performed, ensuring that the design complies with relevant codes and standards.
3 Spot checks on critical areas: The checking engineer has performed spot checks on key structural elements to identify potential failure modes that could pose a significant risk to life safety or lead to critical structural failure.
4 Basic-level checks: The checking engineer has conducted a basic review of the design, focusing on identifying failure modes that could lead to a catastrophic structural collapse or significant damage.
5 Full detailed-level checks: The checking engineer has conducted a comprehensive review of all aspects of the analysis and design, checking every element in detail to ensure compliance with relevant standards, codes, and safety factors.