THE HONG KONG
INSTITUTION OF ENGINEERS
香港工程師學會

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24 September 2024

Mr Raymond B H CHAN
Assistant Director (Property Services)
Architectural Services Department
7/F, Main Block, APB Centre
9 Sung Ping Street
Hung Hom, Kowloon

Dear Mr CHAN

Views from The Hong Kong Institution of Engineers regarding the General Specification for Building 2022 Edition Corrigendum No. GS2022-01

On behalf of the Institution, I am pleased to present to you our views and suggestions as set out in the enclosure for your consideration on the captioned subject.

The Institution welcomes the opportunity to work with the Government and offer our expertise and experience on the area of concern if and when it is needed.

Thank you.

Yours sincerely

Ir Peter SI
Director

AS/PS/SS

Enclosure

Views from The Hong Kong Institution of Engineers
Regarding the General Specification for Building 2022 Edition
Corrigendum No. GS 2022-01

The Hong Kong Institution of Engineers ("HKIE") is pleased to acknowledge the proactive steps taken by the Architectural Services Department ("ArchSD") in reponse to stakeholders' feedback on the General Specification for Building 2022 Edition ("GS2022"). The proposed amendments in Corrigendum No. GS 2022-01 ("GS 2022-01") now being put forward have incorporated industry input for further refinement.

2. The HKIE would recommend taking into consideration the use of grade 60 concrete for bored piles to enhance the bearing capacity of cat 1c rock. Furthermore, as the industry seeks to optimise foundation costs, the incorporation of rebars into the allowable capacity is also proposed. In line with these comments, amendments are suggested as follows:

Clause	GS2022 / GS 2022-01	Suggested Amendment
5.4(a)	The allowable load capacity of piles for loads along the vertical axis must be such that the average compressive stress imposed by this loading does not exceed 25% (20% only for precast concrete piles) of the design grade strength of the concrete or 7.5 MPa whichever is smaller, of the nominal cross-sectional area of piles. The effect of reinforcement shall not be included in the calculation of the allowable load capacity.	The allowable load capacity of piles for loads along the vertical axis must be such that the average compressive stress imposed by this loading does not exceed 25% (20% only for precast concrete piles) of the design grade strength of the concrete or **12.0 MPa** whichever is smaller, of the nominal cross-sectional area of piles. ~~**The effect of reinforcement shall not be included in the calculation of the allowable load capacity.**~~
5.19A(h)	Notwithstanding Clause 5.4 (a), the average compressive stress of concrete pile shaft imposed by the working load shall not exceed 25% of the design grade strength of the concrete or 9.0 MPa whichever is smaller. The maximum allowable compressive stress of the reinforcement imposed by working load shall not exceed 225 MPa for ribbed steel reinforcing bars in Grade 500.	Notwithstanding Clause 5.4 (a), the average compressive stress of concrete pile shaft imposed by the working load shall not exceed 25% of the design grade strength of the concrete or **12.0 MPa** whichever is smaller. The maximum allowable compressive stress of the reinforcement imposed by working load shall not exceed 225 MPa for ribbed steel reinforcing bars in Grade 500.