



WSP Middle East Ltd. (Dubai Branch)

Attention: Professor Francis T.K. Au
Head of Department
Department of Civil Engineering,
The University of Hong Kong

Confidential
Date: 24/09/2019

Dear Professor Au,

I am writing in support of the research by Dr Ray Su. Our team has based a major part of our plate-reinforced composite (PRC) coupling beam design on this research for our project, The Address Residences Jumeirah Resort at Jumeirah Beach, Dubai Marina, Dubai, United Arab Emirates, which has 77 stories and will be the tallest building on the JBR beach when construction is completed around end 2020.

We have used the PRC coupling beams at the double height mechanical levels, where the shear force caused by lateral loads on our 300 meter tower could not be designed for using a conventional Reinforced Concrete beam. This is because we had limited head room to increase the size of beams.

The PRC coupling beams have proved to be a practical and constructible solution in our high rise towers, and they can be used in critical locations to handle high stresses. They are also very useful when there is no option to increase the depth and width of the RC beam due to architectural limitations.

The method described in Dr Su's research has given us a reliable and clear basis for designing the PRC beams. I have met Dr Ray Su at his office in The University of Hong Kong on the 15th of October 2018, in which I have presented our design and the way his research has influenced our method. His advices and feedback on the outcomes were valuable to insure an optimum design.

Yours sincerely,

Yamen Dannan
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