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13/08/2022

To Whom It May Concern

Dear Sir/Madam:

Subject: Structural Adequate Certificate of two steel beams 250UB37 to replace part of the brick walls between kitchen, balcony and living/dining

area at Unit 2, 7-11 Ashburner St, Manly, NSW, 2095

of the brick walls between kitchen, balcony and living/dining area to replace the brick walls between kitchen and family area, between family and dining room, between dining room and living area at the above address have been designed in accordance with AS1170.1-2002 "Permanent, imposed and other actions", AS3700-2011 "Masonry Structures", AS4100-2020 "Steel Structures,

This is to confirm that the designed two steel beams 250UB37 to replace part

AS3600-2018 "Concrete Structures", Building Code Australia (NCC 2019) and

related Australian Standards.

The new 250UB37 steel beam B1 spans at approximately 3.75m. One end of the steel beam will be supported by the existing brick wall with 12mm thick by 200mm wide spreader plate and the other end is sitting on top of externa brick wall with min 250mm bearing length. Steel beam 250UB37 B2 has span 2.7m. One end of beam is supported by the external brick wall with min 250mm bearing length and the other end connects to B1 through the web side plate

connection with utilization of 10PL and two M20 8.8/S bolts. **Temporary prop**

needs to be installed before knocking down the brick walls. All welds to be

5mm CFW, U.N.O.

I have no hesitation in certifying that the current property will be structurally

sound with above modifications.

Soar Engineers Pty Ltd ABN: 40 622 618 606

Tel: 0414 521 755 info@soarengineering.com.au

www.soarengineering.com.au



Mr Lei Zhang

MIEAust, CPEng, NER

Signature

Date 13 / 08 / 22

Registered on the NER in the area of practice of Structural Engineering

Yours Faithfully

Lei Zhang







BEng, MEng, PhdEng, CPEng: 3130003 RPEQ: 11507, NPER

L.Zhang@soarengineering.com.au