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ACOUSTIC AND AIRCONDITIONING ENGINEERS

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Date: 26 September 2016

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From: Warwick West

**SUBJECT GARFISH MANLY-39 EAST ESPLANADE MANLY-
ACOUSTIC SERVICES**

I. REFERENCE BACKGROUND

Manly Council Notice of Determination DA No. 23/2016 dated 13/04/2016, Item 7 required Acoustic Certification for all Garfish Manly-39 East Esplanade Manly roof works associated with the pending fit –out as detailed in the Morris Selvatico Architects Drawings No's GAR-01; A-00 to A23/E inclusive, all dated 08/09/2016

West & Associates Pty Ltd reviewed the drawings, inspected the restaurant with the aim of understanding how the proposed ceiling and terrace roof were to act as sound barriers to contain Patron noise escaping to the apartments above in the same building.

II. SCOPE OF ACOUSTIC CEILING WORK

A. INTERNAL RESTAURANT CEILINGS

The Architectural details of the Restaurant ceiling upgrade indicated that additional Plasterboard and acoustic ceiling tiles are to be installed.

Review of the air borne sound insulation internal restaurant seating requirements, the upgraded ceiling theoretically should achieve a performance of Rw25, well in excess of the noise barrier requirements for those ceiling to satisfy the entertainment condition, Reference Clause ANS01&ANS02 between the internal restaurant seating area to the apartments above.

B. EXTERNAL TERRACE ROOF

The Architectural drawings specify the use of 8mm thick Danpalon Solarspace Decking Roof installed using their proprietary "Standard Fix method on rafters. The roof material is a translucent cellular, UV stable, polycarbonate material that has an laboratory tested airborne sound insulation rating of Rw 14.

We met with the manufacturer/supplier on site and they demonstrated the fixing elements for both the ends and side joint for their standard fix solution. We are satisfied that with the use of their standard components, there will be sufficient

sealing and overlaps to maintain this airborne sound insulation rating at the junction to the building and side/rafter joints

Review of the air borne sound insulation requirements for the terrace roof, the new roof theoretically should achieve a performance of Rw14, equal to the noise barrier requirements for that roof to satisfy the Entertainment Condition, Reference Clause ANS01&ANS02 between the external restaurant terrace area to the apartments above.

III. Occupation Certificate Entertainment Noise Compliance with Clause ANS01 & ANS02:

Clauses ANS01& ANS02 of the Notice of Determination required a Acoustic Report to be prepared after trade resumes verifying compliance of the breakout noise compared with background noise requirements.

West and Associates are proceeding with the unattended monitoring of district noise over 3-4 days in the immediate area to determine single figure district background noise levels in the evening and night periods. This monitoring shall be carried out in the period when the Garfish Restaurant is not trading during the fit out which is between now to 7 October.

We shall use the results of this monitoring for comparison with breakout noise monitoring when trading resumes to determine compliance with Clauses ANS01& ANS02 requirements.

We trust this meets with your understanding and please contact us if you have any questions

Yours Sincerely; Warwick West,

Director West & Associates Pty. Ltd. , MIEA, BE, Grad. Dep. Arch. Acou.

Attachments: 8mm thick Danpalon Solarspace Decking Roof Rw