



QUALITY FAST FACADES LIMITED

RESIDENTIAL DEVELOPMENT

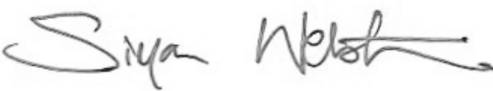
BOATMANS, CITY ROAD EAST, MANCHESTER

FACADE ACOUSTIC REVIEW

R2220-REP01-SJW

4 AUGUST 2022

REPORT DETAILS

Project	Boatmans, City Road East, Manchester
Client	Quality Fast Facades Limited Attn: Andrew Marsden a.marsden@qffacades.co.uk
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Issued By	Simon Webster BEng (Hons) MIOA Red Acoustics Limited Unit 8 Cable Court Pittman Way Preston PR2 9YW T: 01772 722182 F: 01772 722451 M: 07775 850 378 simonwebster@redacoustics.co.uk
Signed	
Checked By	Johnathan Whittle BSc (Hons), Pg. Dip. IOA AMIOA MCIEH
Signed	

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SUMMARY

Red Acoustics Ltd has been commissioned by Quality Fast Facades Limited, to provide an acoustic review for changes to the facades at the residential development site at Boatmans, City Road East, Manchester.

A full acoustic review has been undertaken in accordance with the requirements of Manchester City Council.

The proposed facade constructions have been assessed in accordance with the approved and existing facade elements and comments have been provided.

RESIDENTIAL DEVELOPMENT - BOATMANS, CITY ROAD EAST, MANCHESTER

QUALITY FAST FACADES LIMITED

ENVIRONMENTAL NOISE STUDY - R2220-REP01-SJW

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1.0 INTRODUCTION

Red Acoustics Ltd has been commissioned by Quality Fast Facades Limited, to provide an acoustic review for changes to the facades at the residential development site at Boatmans, City Road East, Manchester.

A full acoustic review of the facade proposals has been undertaken in accordance with the requirements of Manchester City Council.

2.0 EXISTING FACADE ELEMENTS

The existing facade elements comprise:

Masonry Facade

2no skins of 100mm medium density concrete block
c/w full fill mineral wool cavity insulation
19mm timber battens
18mm timber cladding

Predicted performance $\geq 55\text{dB } R_w$.

Timber Facade

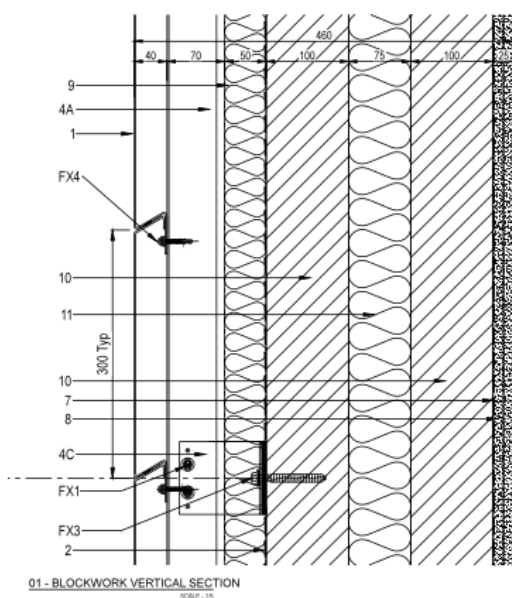
2x12.5mm plasterboard
VCL (appeared to be a DPM type material)
100mm x 50mm s.w timber studs c/w 50mm mineral wool & 50mm Void
11mm plywood
18mm cedar timber cladding

Predicted performance $\geq 50\text{dB } R_w$

3.0 FACADE PROPOSALS

In accordance with the requirements of Manchester City Council, the proposed facade constructions are presented below and compared against the existing facade acoustic performance requirements.

Masonry Facade

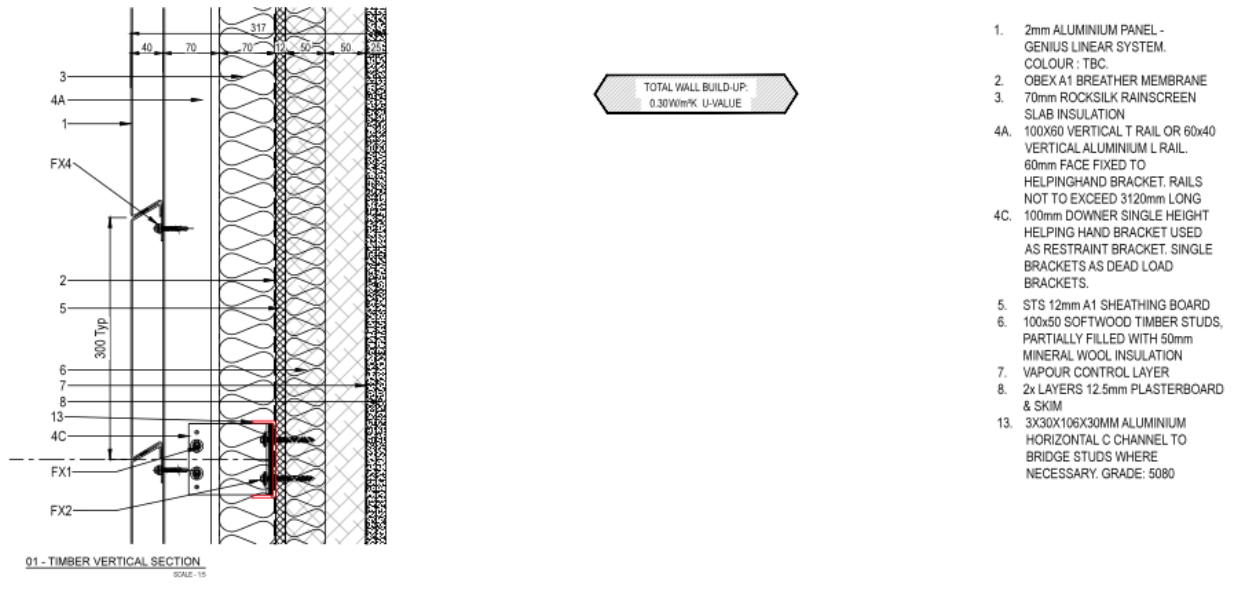


TOTAL WALL BUILD-UP:
0.24 W/m²K U-VALUE

1. 2mm ALUMINIUM PANEL - GENIUS LINEAR SYSTEM. COLOUR: TBC.
2. OBEX A1 BREATHER MEMBRANE
- 4A. 100X60 VERTICAL T RAIL OR 60X40 VERTICAL ALUMINIUM L RAIL. 60mm FACE FIXED TO HELPINGHAND BRACKET. RAILS NOT TO EXCEED 3120mm LONG
- 4C. 100mm DOWNER SINGLE HEIGHT HELPING HAND BRACKET USED AS RESTRAINT BRACKET. SINGLE BRACKETS AS DEAD LOAD BRACKETS.
7. VAPOUR CONTROL LAYER
8. 2x LAYERS 12.5mm PLASTERBOARD & SKIM
9. 50mm ROCKSILK RAINSCREEN SLAB INSULATION
10. 100mm MEDIUM DENSITY CONCRETE BLOCKWORK
11. 75mm MINERAL WOOL INSULATION

Predicted performance $\geq 55\text{dB } R_w$

Timber Facade



Predicted performance $\geq 55\text{dB } R_w$

The predictions above indicate that the proposed new facade provides an acoustic performance which is equal to or greater than the existing facade construction. The acoustic integrity of the facade will therefore be maintained with the proposed works subject to a good level of workmanship.

4.0 CONCLUSIONS

Red Acoustics Ltd has been commissioned by Quality Fast Facades Limited, to provide an acoustic review for changes to the facades at the residential development site at Boatmans, City Road East, Manchester.

A full acoustic review has been undertaken in accordance with the requirements of Manchester City Council.

The predictions above indicate that the proposed new facade provides an acoustic performance which is equal to or greater than the existing facade construction. The acoustic integrity of the facade will therefore be maintained with the proposed works subject to a good level of workmanship.