

**Darryn Parry**

Lancer Scott Construction  
Queen Charlotte House  
53-55 Queen Charlotte St  
Bristol  
BS1 4HQ

18/01/2024

Our Ref: 7065/L1

Dear Darryn,

**Re: Milliners, Bristol**

The following condition has been issued by the Local Planning Authority for Levels 00-05 of Milliners, Bristol:

*3. No cladding material shall be installed until a specification to show that the acoustic performance of the replacement building facing materials has been submitted to and approved in writing by the Council. The specification will need to show that the acoustic performance of the replacement building facing materials will be no less than the acoustic performance of the current building facing materials.*

The following letter sets out the predicted sound reduction performances of the existing and proposed replacement cladding / external façade materials.

Each of the constructions has been modelled using INSUL software.

*Note: where exact products/materials are not available in the software, alternative similar materials have been used:*

*external stone cladding has been modelled as a similar thickness of stone roof tile.*

*Rockwool NyRock insulation densities are approximate*

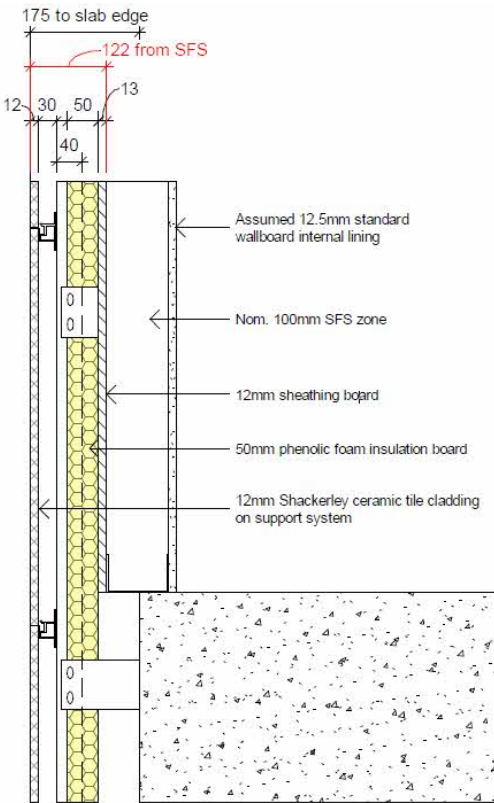
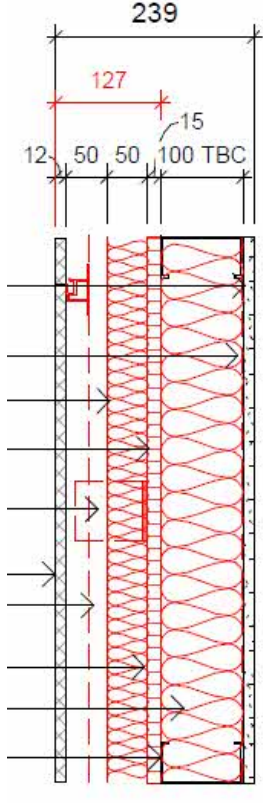
*Calcium Silicate board used for Benx Sheathing*

*80mm Kingspan RW80 used instead of 80mm Microrib*

# 1. FAÇADE CONSTRUCTIONS

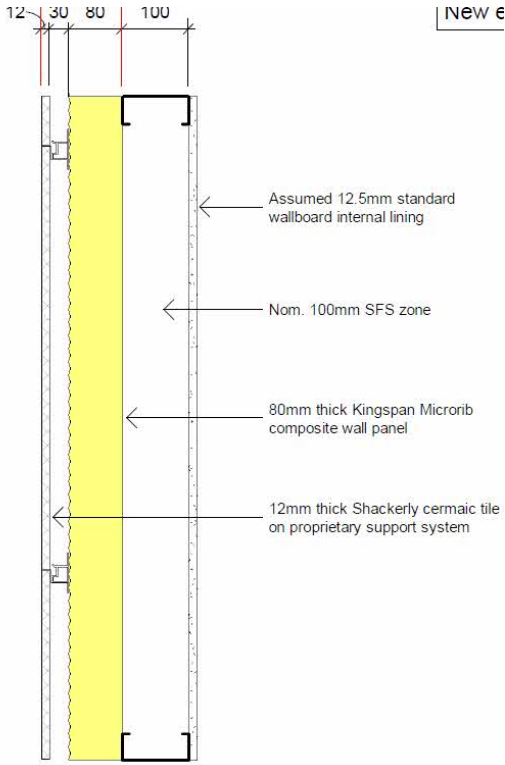
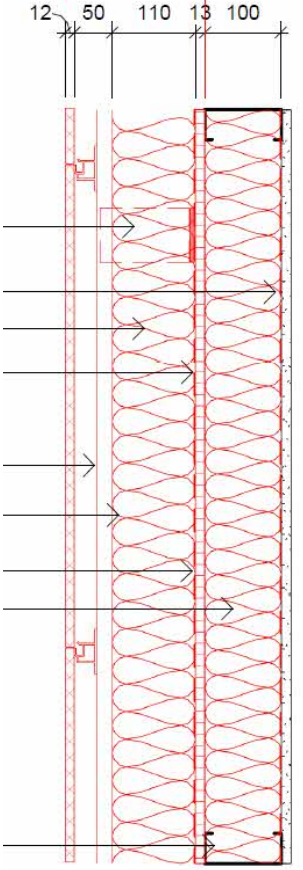
## 1.1 Wall Type FF1

Table 1.1 – Wall Type FF1 constructions

Type	Existing External Façade	Proposed External Façade
FF1	<p>Shackerley Ceramic tile on rainscreen support rails, Kingspan insulation, Siniat weather defence board, SFS Frame, 12.5mm plasterboard (assumed)</p>	<p><b>Shackerley Ceramic tile (reinstated)</b> new cladding support system, Rockwool NyRock Rainscreen Insulation, 15mm Benx Y-Wall sheathing board, new Rockwool NyRock Frame insulation in <b>existing SFS zone</b>, <b>existing 12.5mm plasterboard (assumed)</b></p>
		
	<p><math>R_w48</math> (see Figure A.1)</p>	<p><math>R_w57</math> (see Figure A.2)</p>

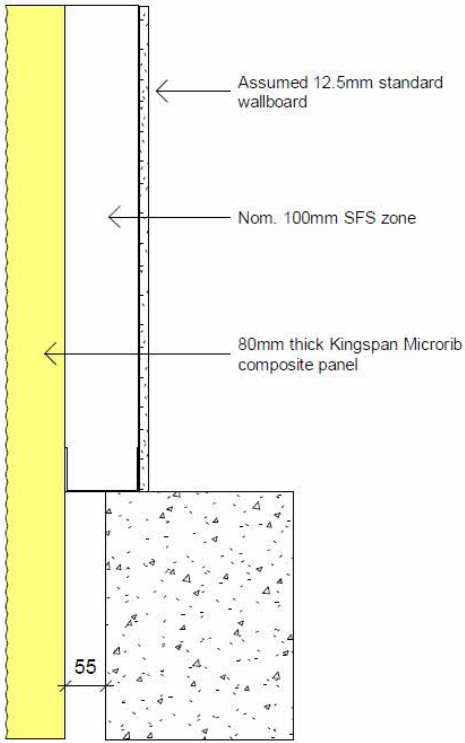
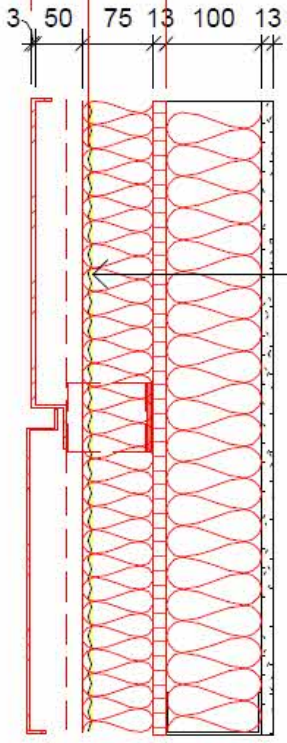
## 1.2 Wall Type FF5

Table 1.2 – Wall Type FF5 constructions

	<p>Shackerley Ceramic tile on rainscreen support rails, 80mm Kingspan Microrib composite panel, SFS Frame, 12.5mm plasterboard (assumed)</p>	<p><b>Shackerley Ceramic tile (reinstated)</b> new cladding support system, Rockwool NyRock Rainscreen Insulation, 15mm Benx Y-Wall sheathing board, new Rockwool NyRock Frame insulation in <b>existing SFS zone</b>, <b>existing 12.5mm plasterboard (assumed)</b></p>
<p>FF5</p>		
	<p><math>R_w47</math> (see Figure A.3)</p>	<p><math>R_w57</math> (see Figure A.4)</p>

### 1.3 Wall Type GF2

Table 1.3 Wall Type GF2

	<p>80mm Kingspan Microrib composite panel, SFS Frame, 12.5mm plasterboard (assumed)</p>	<p>Valcan VitraDual aluminium cladding, new cladding support system, Rockwool NyRock Rainscreen Insulation, 15mm Benx Y-Wall sheathing board, new Rockwool NyRock Frame insulation in <b>existing SFS zone</b>, <b>existing 12.5mm plasterboard (assumed)</b></p>
<p>GF2</p>	 <p>Assumed 12.5mm standard wallboard</p> <p>Nom. 100mm SFS zone</p> <p>80mm thick Kingspan Microrib composite panel</p> <p>55</p>	 <p>3 50 75 13 100 13</p>
	<p><math>R_w39</math> (see Figure A.5)</p>	<p><math>R_w53</math> (see Figure A.6)</p>

### 1.4 Wall Type FF7

Wall Type FF& remains unchanged.

## 2. PERFORMANCE OF THE REPLACEMENT FAÇADE

The replacement façade is demonstrated to provide a significant improvement over the existing façade / cladding structures.

Windows and ventilation elements are to remain unchanged.

Regards,



**Paul McGrath**

BSc(Hons) MIOA | Director

**Hunter Acoustics**

## APPENDIX A – INSUL

Figure A.1 FF1 – Existing

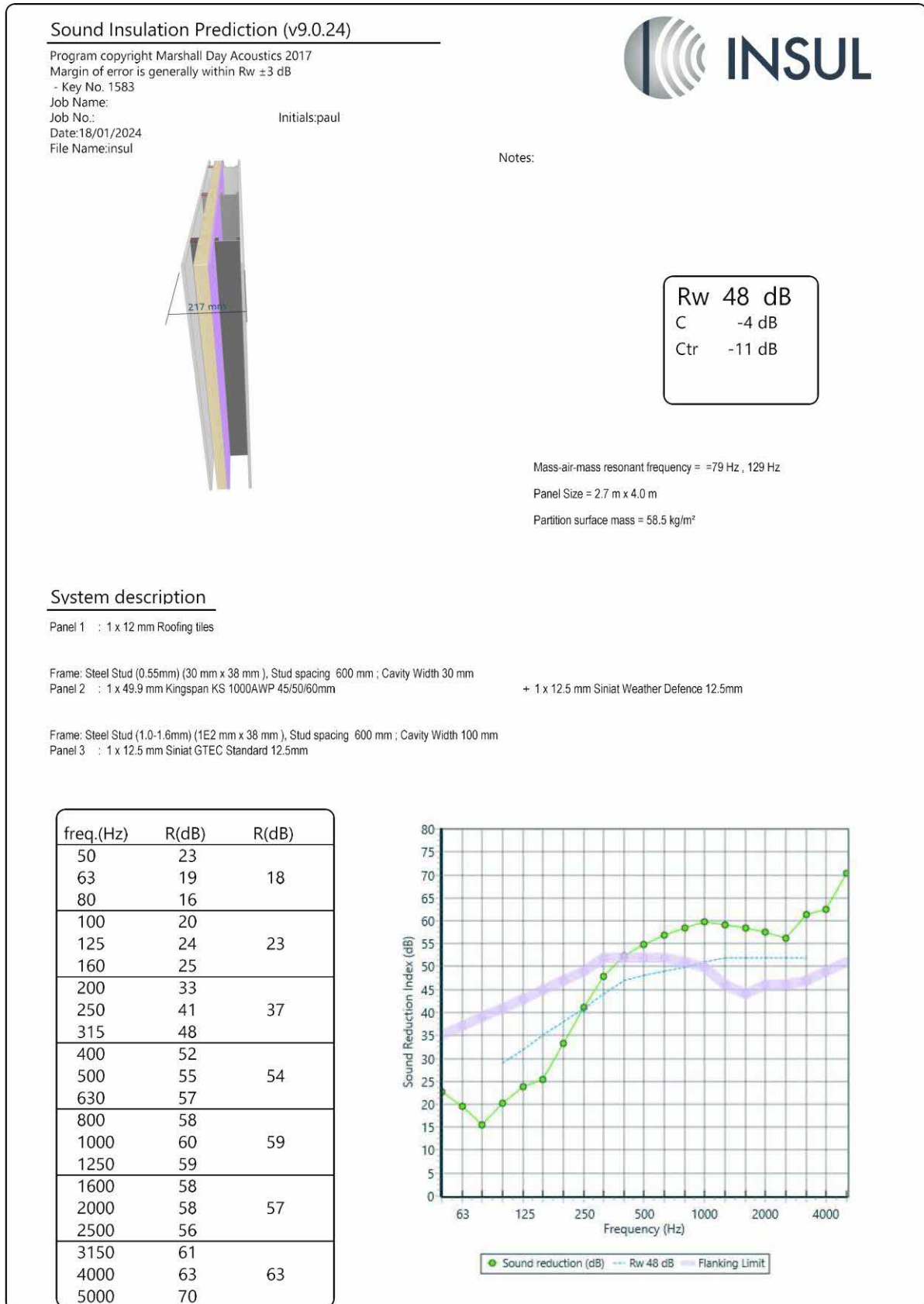




Figure A.2 FF1 – Proposed

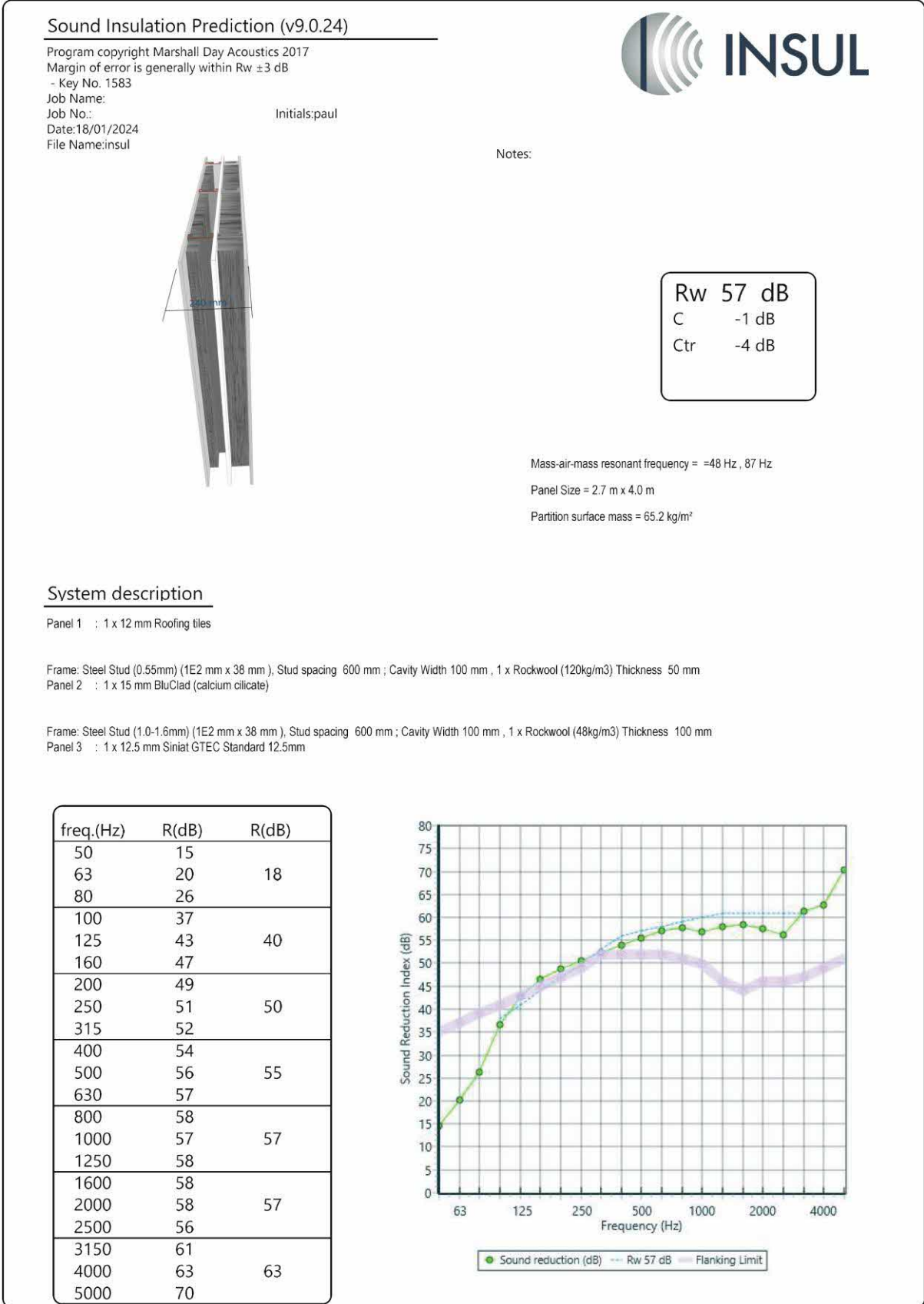


Figure A.3 FF5 – Existing

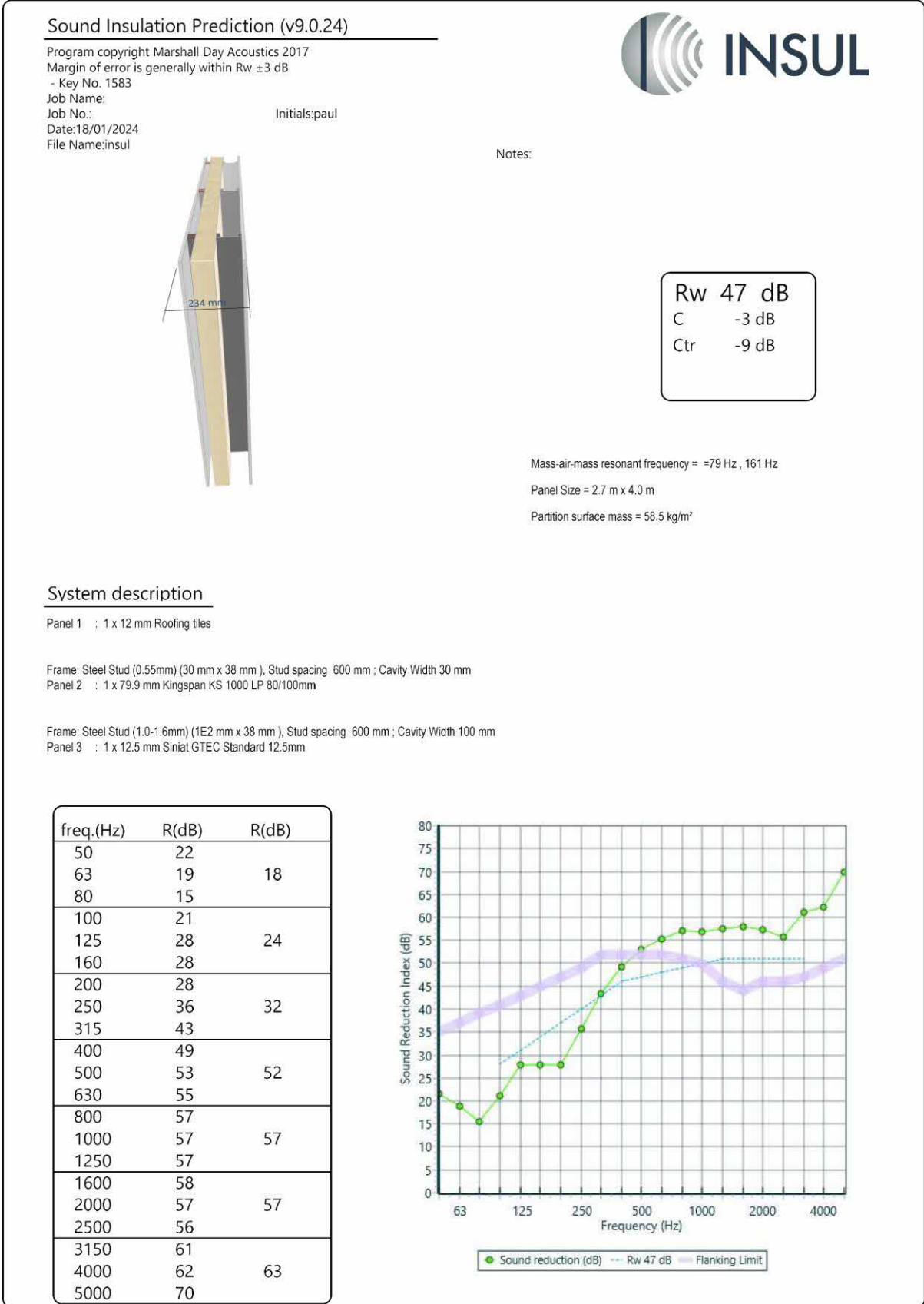




Figure A.4 FF5 – Proposed

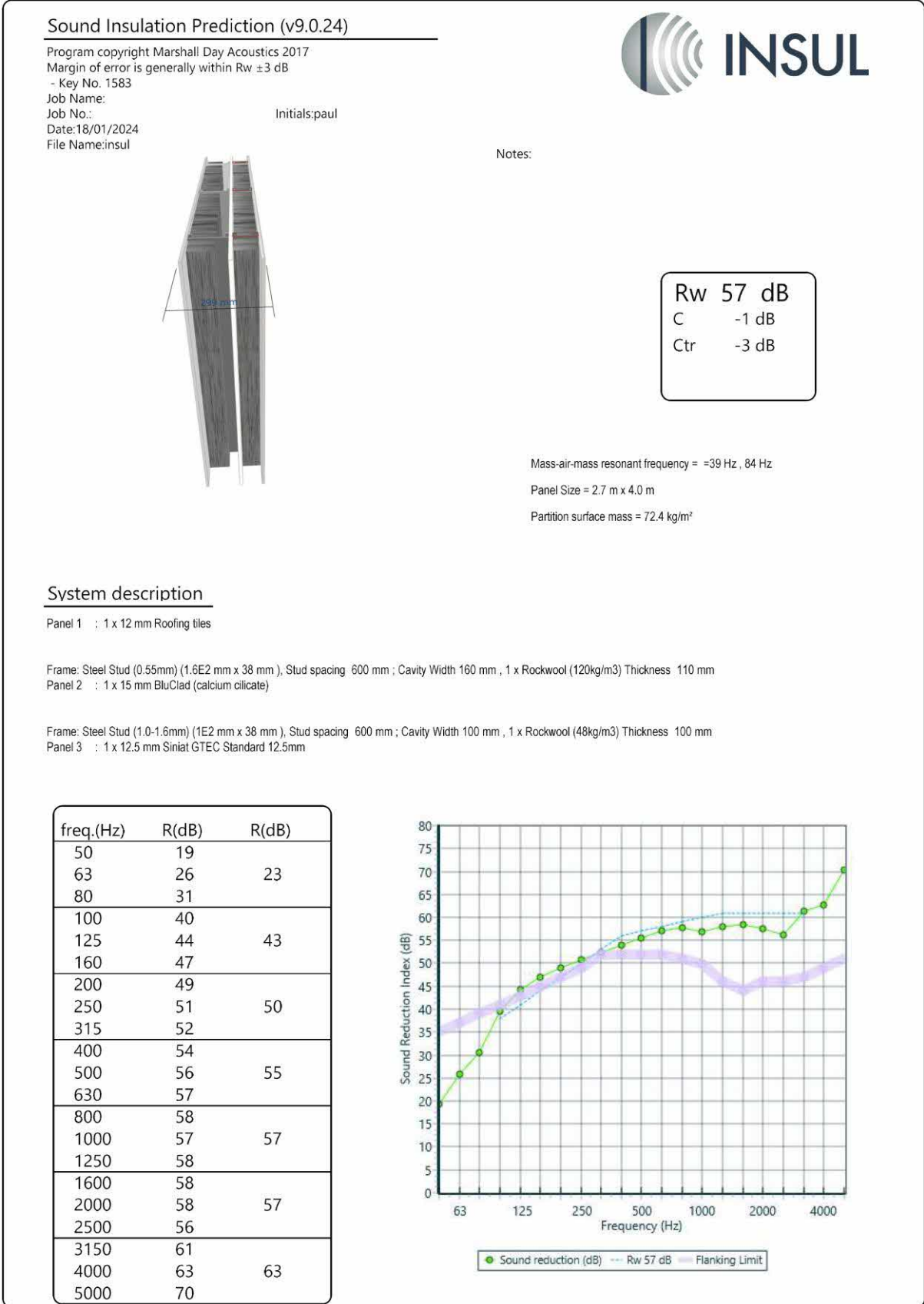


Figure A.5 GF2 – Existing

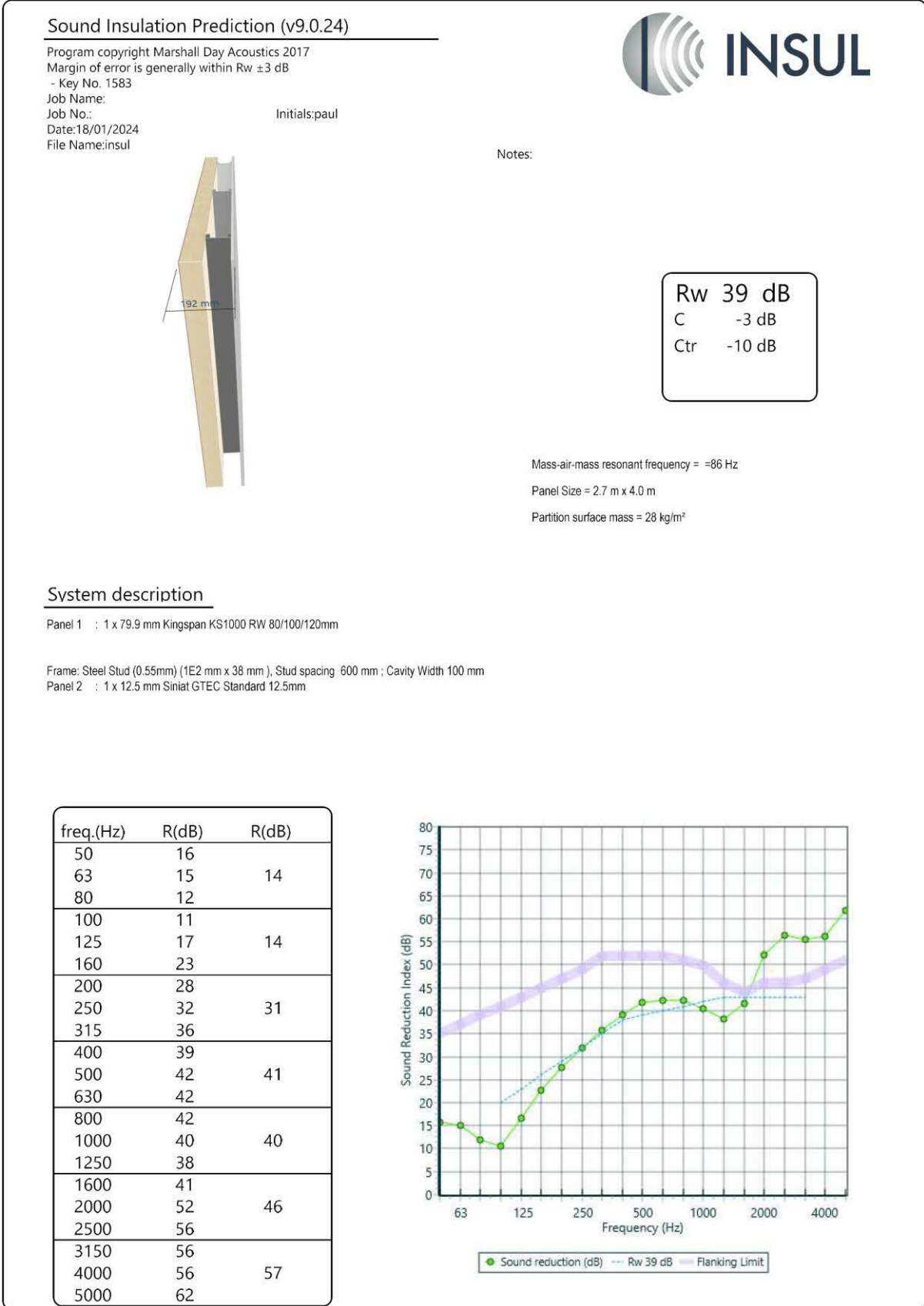


Figure A.6 GF2 – Proposed

