

**CAM21010001-3: IMPACT NOISE INSULATION**

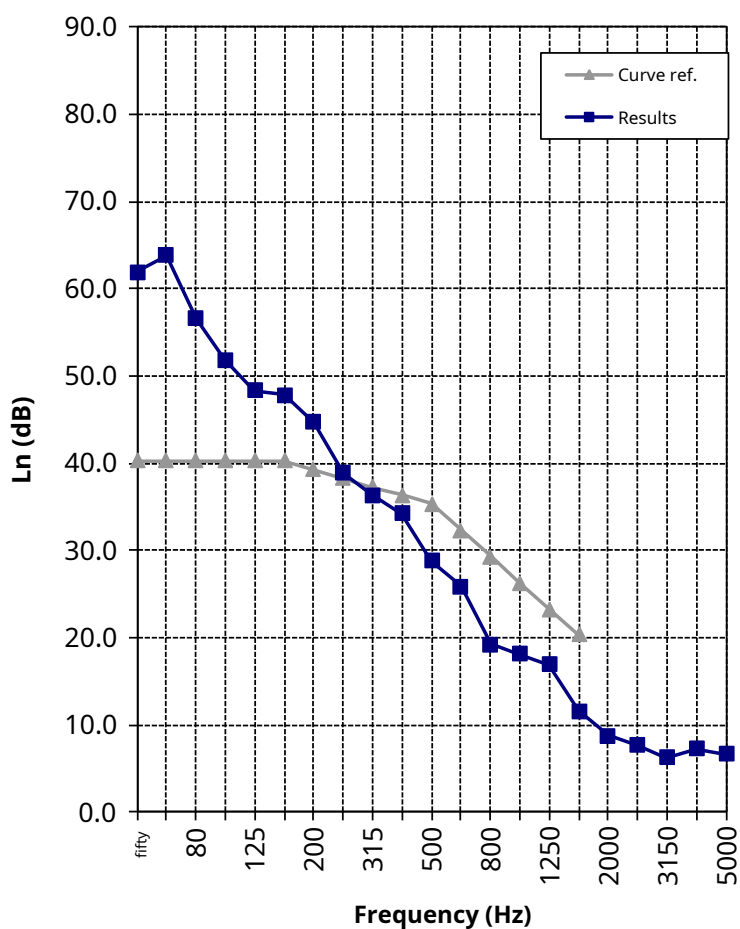
**Client:** AMC

**Show:** Horizontal enclosure formed by: Rigidur H13 BR 13 mm plate + 20 mm Rigidur Solera plate screwed to 50 mm wooden battens on Akustik + Sylomer Floor Mount 15 supports on light reference slab + suspended ceiling with Akustik + Sylomer supports with a plenum of 28 mm with 90 mm of mineral wool and finished in double plate of 12.5mm thick laminated plaster

**Total thickness:** 82 cm

**Surface mass:** 101 kg / m<sup>2</sup>

Freq. F Hz	Ln dB
<i>fifty</i>	<b>61.9</b>
<b>63</b>	<b>63.8</b>
<b>80</b>	≤ 56.6
<b>100</b>	<b>51.8</b>
<b>125</b>	<b>48.4</b>
<b>160</b>	<b>47.9</b>
<b>200</b>	<b>44.7</b>
<b>250</b>	<b>38.9</b>
<b>315</b>	<b>36.4</b>
<b>400</b>	<b>34.2</b>
<b>500</b>	<b>28.8</b>
<b>630</b>	<b>25.9</b>
<b>800</b>	≤ 19.2
<b>1000</b>	≤ 18.1
<b>1250</b>	≤ 16.9
<b>1600</b>	≤ 11.6
<b>2000</b>	≤ 8.8
<b>2500</b>	≤ 7.7
<b>3150</b>	≤ 6.2
<b>4000</b>	≤ 7.2
<b>5000</b>	≤ 6.7



Global impact noise calculated according to ISO 717-2: 2013.

$$L_n, w (CI) \leq 38.3 (2) \text{ dB}$$

Evaluation based on laboratory measurement results obtained using an engineering method

**CAM21010001-3: IMPROVEMENT OF IMPACT NOISE INSULATION**

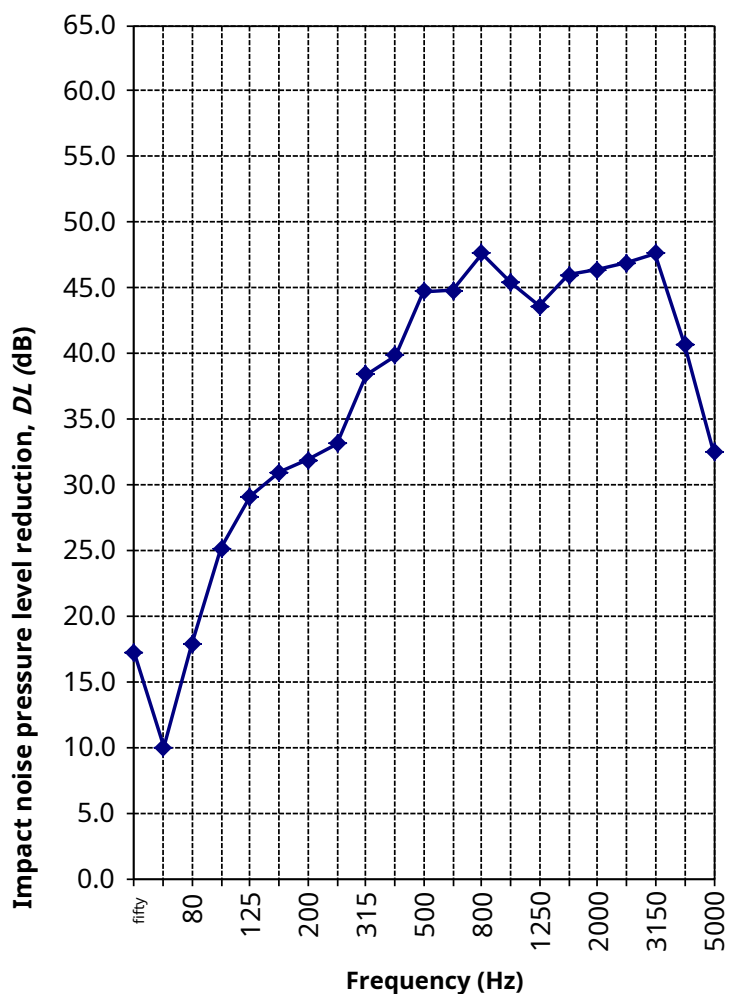
**Client:** AMC

**Show:** Horizontal enclosure formed by: Rigidur H13 BR 13 mm plate + 20 mm Rigidur Solera plate screwed to 50 mm wooden battens on Akustik + Sylomer Floor Mount 15 supports on light reference slab + suspended ceiling with Akustik + Sylomer supports with a plenum of 280 mm with 90 mm mineral wool and finished in 12.5 mm thick double laminated gypsum board

**Total thickness:** 82 cm

**Surface mass:** 101 kg / m<sup>two</sup>

<i>Freq.</i> <i>F</i> <i>Hz</i>	<i>L<sub>n,0</sub></i> <i>dB</i>	<i>DL</i> <i>dB</i>
<i>fifty</i>	79.1	17.2
<b>63</b>	73.8	10.0
<b>80</b>	74.4	17.8
<b>100</b>	77.0	25.1
<b>125</b>	77.5	29.1
<b>160</b>	78.8	30.9
<b>200</b>	76.6	31.9
<b>250</b>	72.0	33.1
<b>315</b>	74.8	38.4
<b>400</b>	74.1	39.8
<b>500</b>	73.5	44.7
<b>630</b>	70.5	44.8
<b>800</b>	66.9	47.7
<b>1000</b>	63.5	45.4
<b>1250</b>	60.5	43.6
<b>1600</b>	57.6	46.0
<b>2000</b>	55.2	46.4
<b>2500</b>	54.6	46.9
<b>3150</b>	53.9	47.6
<b>4000</b>	48.0	40.7
<b>5000</b>	39.1	32.4



Weighted reduction of the impact sound pressure level according to ISO 717-2: 2013

**DL<sub>w</sub> = 44 dB**

CIA = -8 dB

Ln<sub>w, r</sub> = 34 dB

CI, r = -3 dB

Ln<sub>w, 0</sub> = 71 dB

CI, 0 = -1 dB

**Test date:**

March 3 and 17  
2021