

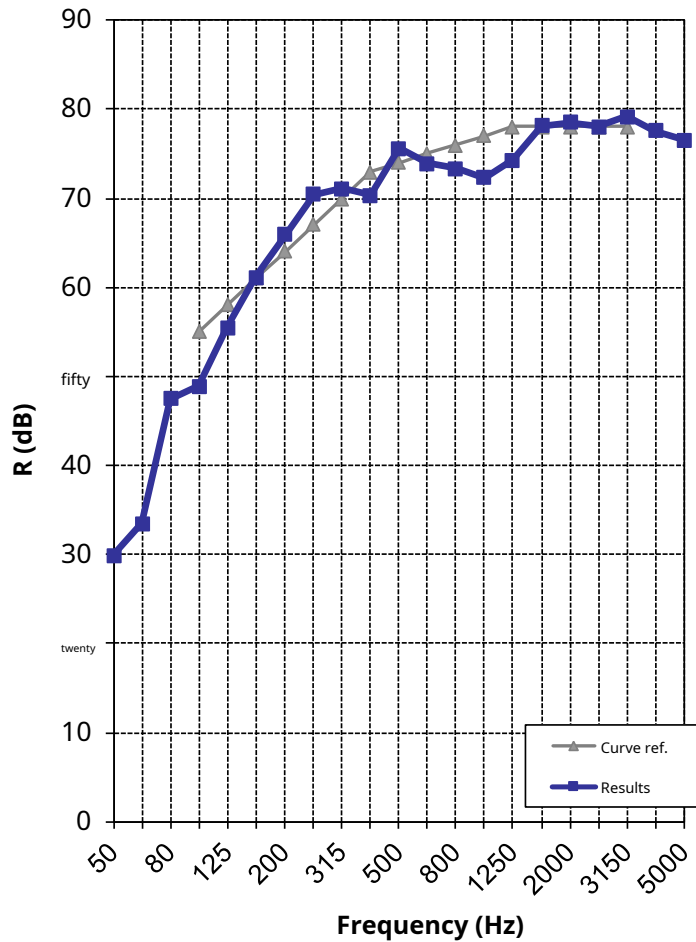
**CAM21010001-3: LIGHTWEIGHT FLOOR WITH RIGIDUR FLOOR AND AKUSTIK + SYLOMER 25
ROOF WITH 280 MM AND 90 MM PLENUMDE MINERAL WOOL, FINISHED IN DOUBLE 15 MM
LAMINATED GYPSUM PLATE**

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 28mm with 90mm mineral wool and finished in 12.5mm thick double laminated gypsum board

Total thickness:
Surface mass:

Freq. F Hz	R dB
<i>fifty</i>	29.9
63	33.4
80	≥ 47.5
100	≥ 48.8
125	≥ 55.5
160	≥ 61.1
200	≥ 66.0
250	≥ 70.4
315	≥ 71.1
400	≥ 70.4
500	≥ 75.6
630	≥ 73.9
800	≥ 73.3
1000	≥ 72.3
1250	≥ 74.3
1600	≥ 78.1
2000	≥ 78.5
2500	≥ 78.1
3150	≥ 79.2
4000	≥ 77.6
5000	≥ 76.6



Global insulation calculated according to ISO 717-1: 2013:

R_w (C; C_{tr}; C50-5000; C_{tr}, 50-5000) ≥ 74 (-2; -7; -8; -22) dB Global insulation in dBA between 50 - 5000Hz:

R (A) ≥ 66.5 dBA

CAM21010001-3: IMPROVEMENT OF AIRBORNE NOISE INSULATION

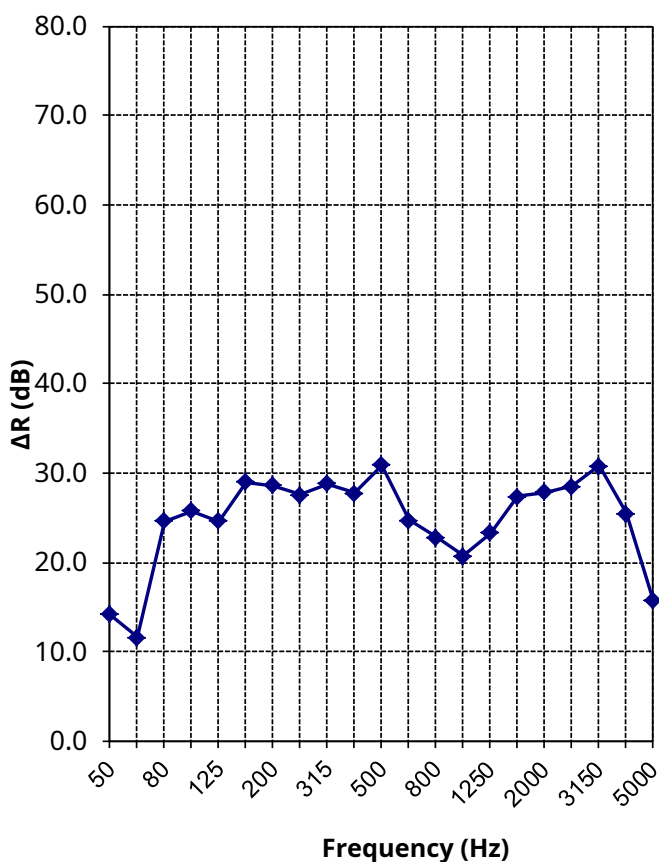
Client: AMC

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 of mineral wool and finished in 12.5 double laminated gypsum board mm thick

Total thickness: 82 cm

Surface mass: 101 kg / m^{two}

<i>Freq.</i> <i>F</i> <i>Hz</i>	<i>Rwith</i> <i>dB</i>	<i>Rsin</i> <i>dB</i>	ΔR <i>dB</i>
<i>fifty</i>	29.9	15.7	14.2
63	33.4	21.8	11.6
80	47.5	22.9	24.6
100	48.8	23.0	25.8
125	55.5	30.9	24.6
160	61.1	32.1	29.0
200	66.0	37.4	28.6
250	70.4	42.8	27.6
315	71.1	42.3	28.8
400	70.4	42.6	27.8
500	75.6	44.7	30.9
630	73.9	49.2	24.7
800	73.3	50.5	22.8
1000	72.3	51.6	20.7
1250	74.3	51.0	23.3
1600	78.1	50.7	27.4
2000	78.5	50.6	27.9
2500	78.1	49.6	28.5
3150	79.2	48.4	30.8
4000	77.6	52.1	25.5
5000	76.6	60.9	15.7



Rwef (C; Ctr) sin = 48 (-2; -2) dB

Rwref (C; Ctr) con = 74 (-2; -8) dB

Δ (Rw + C) direct = 26 dB Δ

(Rw + Ctr) direct = 20 dB

ΔR (A) (DB-HR) = 26 dBA

Test date: March 3 and 17, 2021

ΔR_w direct = 26 dB

