

Akustik + Sylomer® Floor Mount. Summary of test results

Results of improvement of airborne sound insulation

CAM20090054-1: OSB board, 22 mm on wooden battens, 5x5 cm, installed over "Akustik + Sylomer® Floor Mount 30" with 45 mm mineral wool between battens. The system was installed on a concrete reference slab of 140 mm.

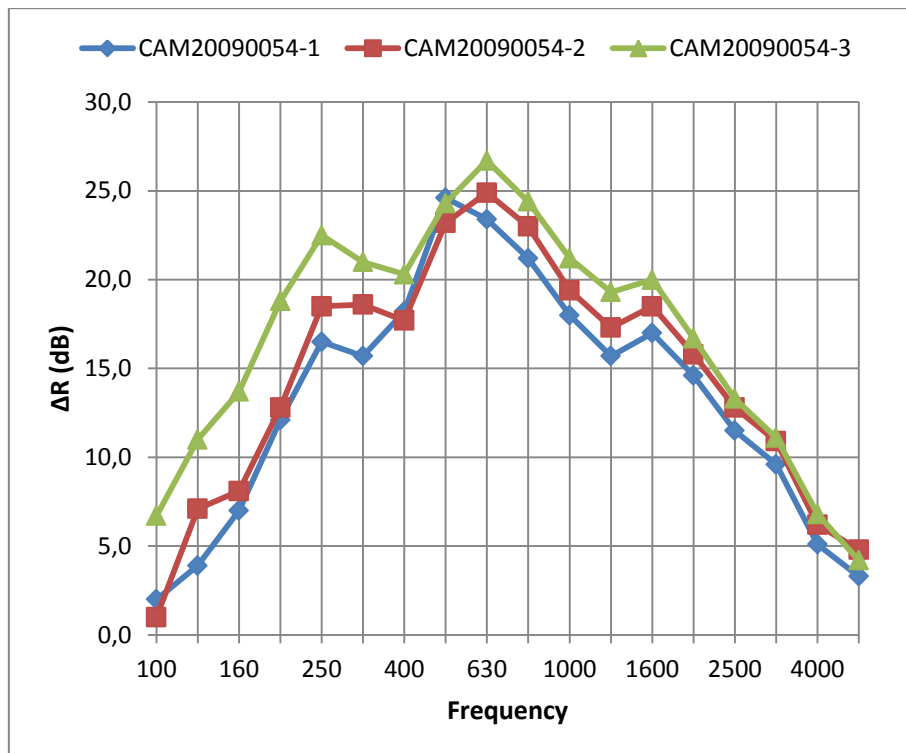
CAM20090054-2: OSB board, 22 mm on wooden battens, 5x5 cm, installed over "Akustik + Sylomer® Floor Mount 25" with 45 mm mineral wool between battens. The system was installed on a concrete reference slab of 140 mm.

CAM20090054-3: Rigidur H BR plasterboard, 13 mm + Rigidur Flooring Element, 20 mm on wooden battens, 5x5 cm, installed over "Akustik + Sylomer® Floor Mount 30" with 45 mm mineral wool between battens. The system was installed on a concrete reference slab of 140 mm

Resume chart:

Improvement of insulation to airborne sound, ΔR (dB)			
Frequency	CAM20090054-1	CAM20090054-2	CAM20090054-3
100	2	1	6,7
125	3,9	7,1	11
160	7	8,1	13,7
200	12,1	12,8	18,8
250	16,5	18,5	22,5
315	15,7	18,6	21
400	18,2	17,7	20,3
500	24,6	23,2	24,3
630	23,4	24,9	26,7
800	21,2	23	24,4
1000	18	19,4	21,2
1250	15,7	17,3	19,3
1600	17	18,5	20
2000	14,6	15,8	16,7
2500	11,5	12,8	13,3
3150	9,6	10,9	11,1
4000	5,1	6,2	6,8
5000	3,3	4,8	4,2
$\Delta R(A)$ (dBA)	13	14	18
ΔR_w (dB)	14	15	19

Comparative plot:



Results of impact sound reduction

Resume chart:

Frequency	Impact sound reduction, ΔL (dB)		
	CAM20090054-1	CAM20090054-2	CAM20090054-3
100	5,3	7,1	13,9
125	4,7	9,0	17,1
160	9,6	13,1	20,3
200	15,0	17,5	22,8
250	18,1	21,2	25,5
315	23,9	25,7	28,1
400	26,6	28,7	30,7
500	31,2	32,3	33,1
630	34,6	34,3	35,2
800	37,8	37,0	37,1
1000	39,5	38,5	40,0
1250	42,1	43,2	44,3
1600	48,6	51,4	50,9
2000	56,8	59,6	58,7
2500	61,9	64,0	63,1
3150	64,1	65,0	64,7
4000	61,6	61,9	61,8
5000	61,6	61,8	61,7

ΔL_w (dB)	28	31	38
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Comparative plot:

