

6.4 Results – Configuration n°9

A complete description of this configuration is provided in appendix C.

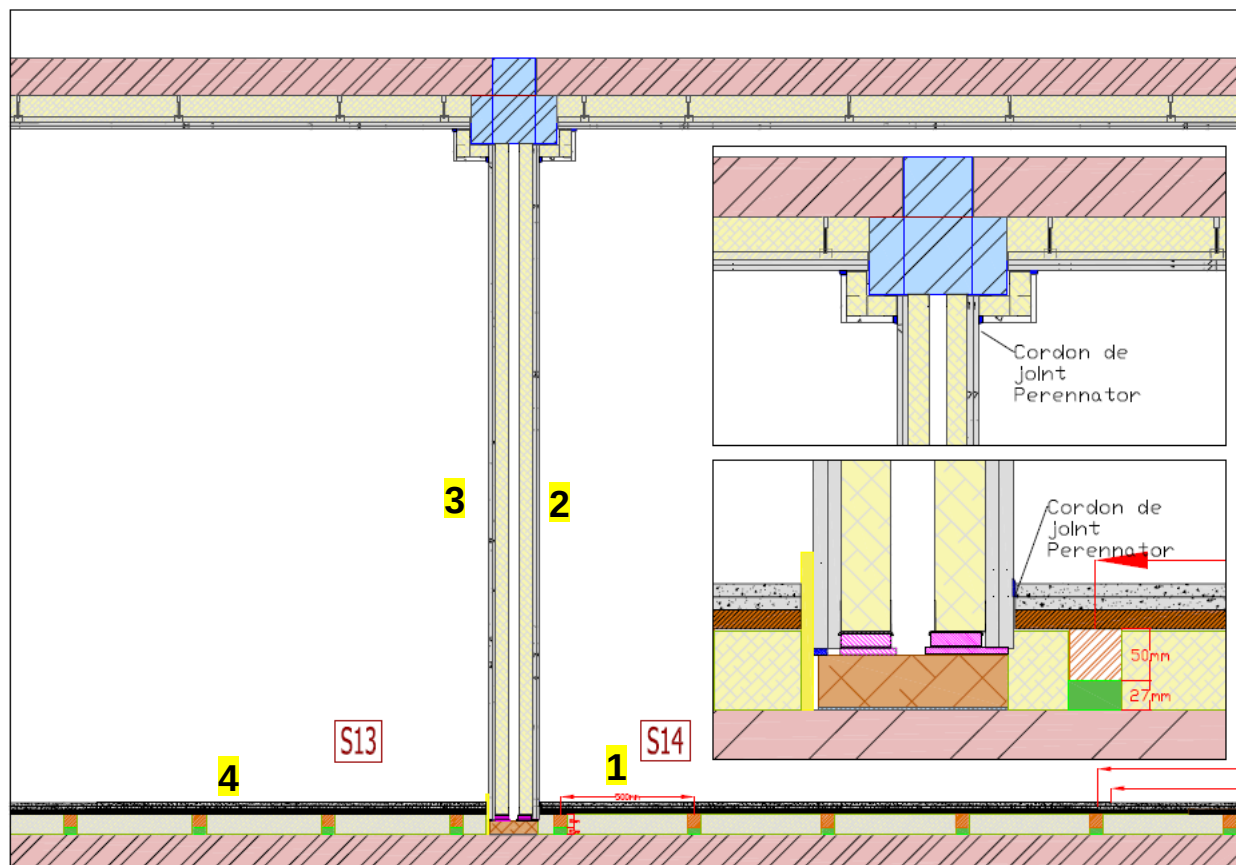


Figure 11 : S13-S14 - Vertical sectional view.

Synthesis:

Element 1: S14 - floor.

Fermacell + OSB plates supported on vibration isolators (resilient channels). Glass wool in cavity between decking and the CLT structure.

Element 2: S14 - partition wall.

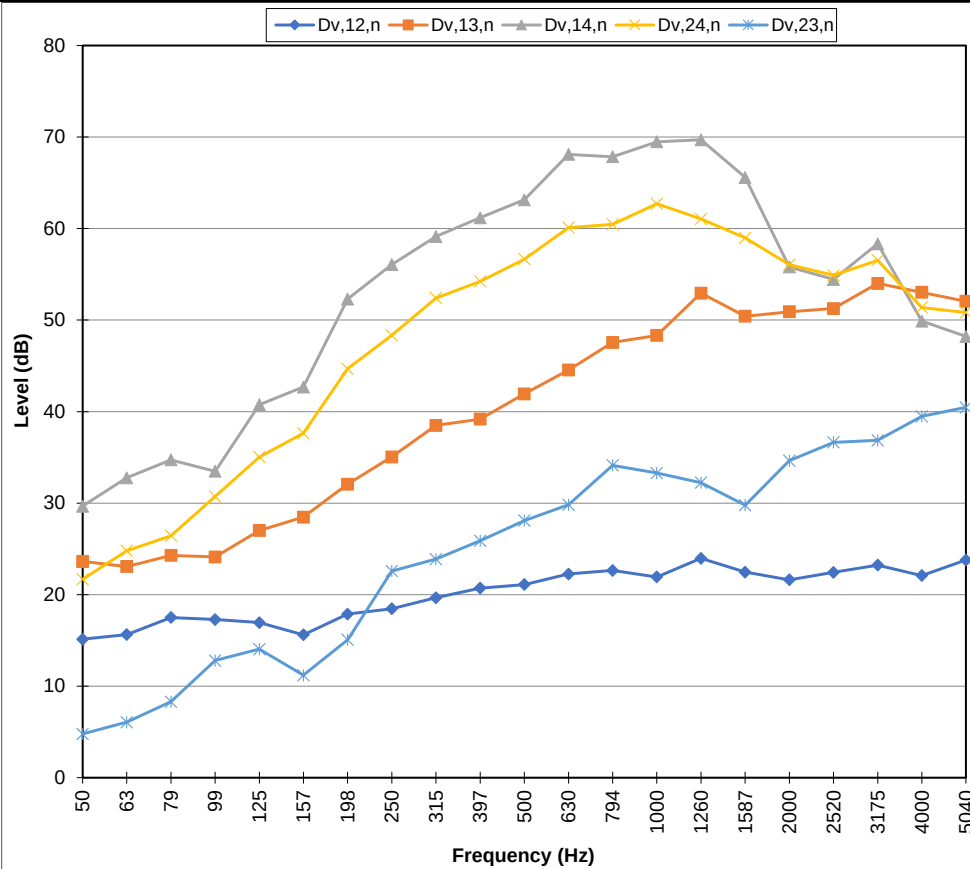
Element 3: S13 - partition wall.

2 plasterboard layers, BA13dB PREGYPLAC (SINIAT). Framework PREGYMETAL R48 / M48 with glass wool PAR PHONIC 45 (ISOVER). Supported on AMC vibration isolators (Sylomer EP 500 + S35 AMC)

Element 4: S13 - floor.

Fermacell + OSB plates supported on vibration isolators (resilient channels). Glass wool in cavity between decking and the CLT structure.

Configuration 9: measurement on April 25th, 2023.



Frequency (Hz)	D _{v,12,n} (dB)	D _{v,13,n} (dB)	D _{v,14,n} (dB)	D _{v,24,n} (dB)	D _{v,23,n} (dB)
50	15	24	30	22	5
63	16	23	33	25	6
79	18	24	35	26	8
99	17	24	33	31	13
125	17	27	41	35	14
157	16	28	43	38	11
198	18	32	52	45	15
250	18	35	56	48	23
315	20	38	59	52	24
397	21	39	61	54	26
500	21	42	63	57	28
630	22	45	68	60	30
794	23	48	68	60	34
1000	22	48	69	63	33
1260	24	53	70	61	32
1587	22	50	66	59	30
2000	22	51	56	56	35
2520	22	51	54	55	37
3175	23	54	58	57	37
4000	22	53	50	51	39
5040	24	52	48	51	40