

6.2 Results – Configuration n°8

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

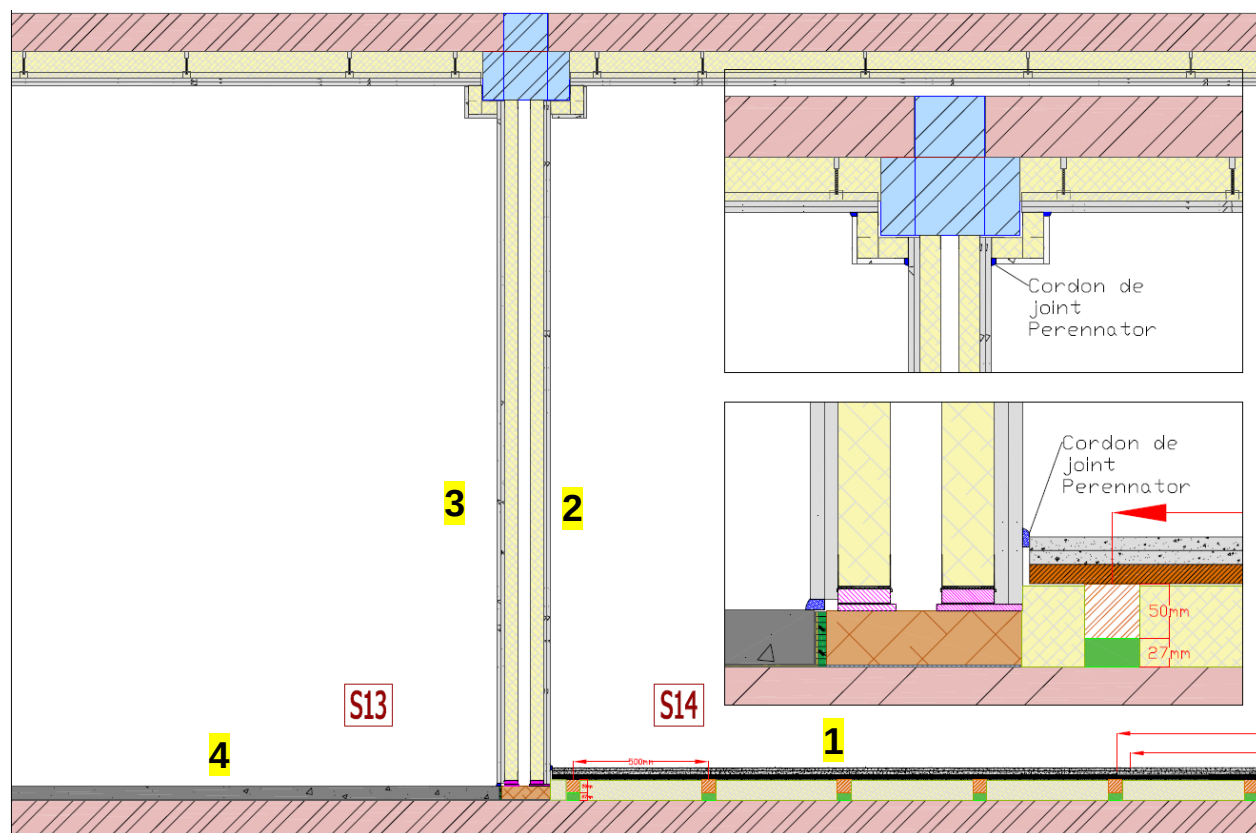


Figure 9 : S13-S14 - Vertical sectional view.

Synthesis:

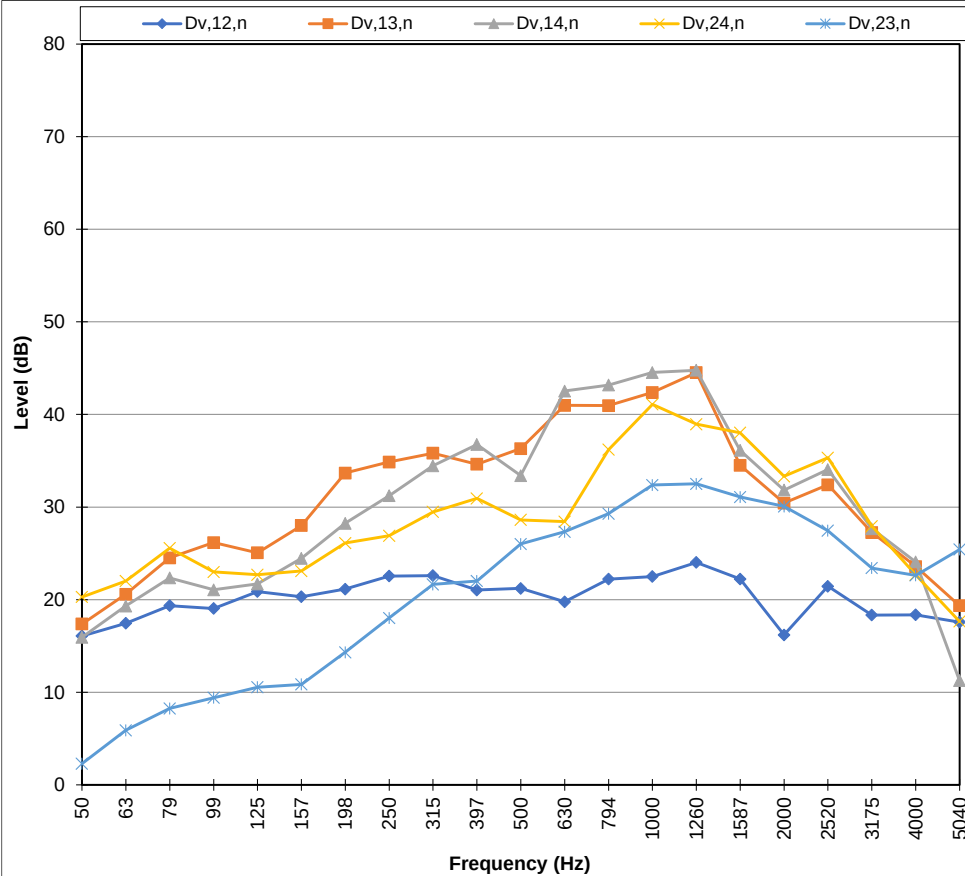
Element 1: S14 - floor.
Fermacell + OSB plates supported on vibration isolators (resilient channels).
Glass wool in cavity between decking and the CLT structure.

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.
Concrete screed 50 mm on ASSOUR CHAPE 20 underlayer

Configuration 8: measurement on April 5th, 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	16	17	16	20	2
63	17	21	19	22	6
79	19	25	22	26	8
99	19	26	21	23	9
125	21	25	22	23	11
157	20	28	24	23	11
198	21	34	28	26	14
250	23	35	31	27	18
315	23	36	34	29	22
397	21	35	37	31	22
500	21	36	33	29	26
630	20	41	43	28	27
794	22	41	43	36	29
1000	22	42	45	41	32
1260	24	45	45	39	33
1587	22	35	36	38	31
2000	16	30	32	33	30
2520	21	32	34	35	27
3175	18	27	28	28	23
4000	18	24	24	23	23
5040	18	19	11	18	25