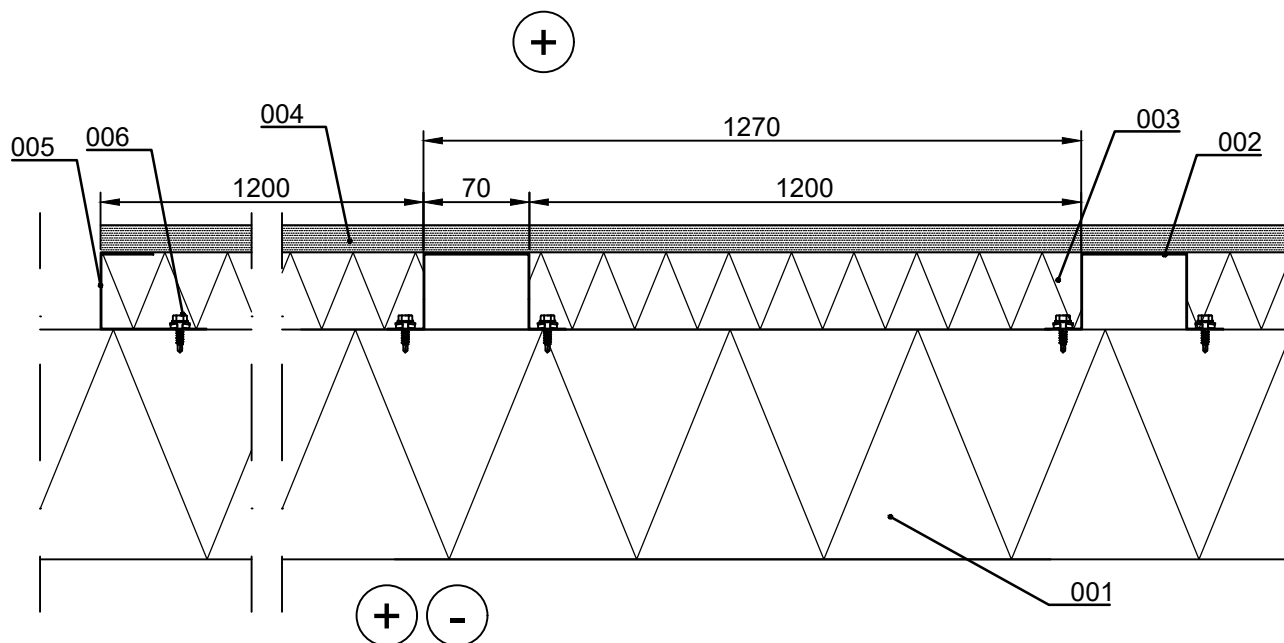


Date 30.09.2022	Rev. date 07.10.2025	Work nr.	Drawing nr. AC01-SPA-1E
Drawn by Ruukki	Rev. 2		
Scale 1:5	Building		File nr.

Typical sandwich panel sound insulation level is between R_w 29 - 31dB. Panel surfaces are sound reflective in nature without sound absorption. Added sound absorption layer increase sandwich panel sound insulation property as well. Amount of increased R_w value in dB's is very similar installed with another type of sandwich panel. The sound absorption layer can also be used on partition board wall or ceiling.

SPA150E + 50 mm acoustic structure		
acoustic structure	R_w value improvement	R_w
one side	+ 6 dB	36 dB

Practical absorption coefficient								
Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Class
α_p	0,30	0,85	1,00	0,95	0,95	0,95	1,00	A



- ☐ 001. Sandwich panel, SPA
- ☐ 002. Support stud CA1SS9
- ☐ 003. Stone wool slab with glass fibre felt, density ~85 kg/m³ (50 mm x 600 mm x 1200 mm)
- ☐ 004. Ruukki Design profile with 30% perforating
- ☐ 005. Support stud CA1RS3
- ☐ 006. Screw S3H55022L02S4B, c/c 300

The final execution always according to instructions of the structural designer

☒ Ruukki's delivery

Date 30.09.2022	Rev. date 07.10.2025	Work nr.	Drawing nr. AC01-SPA-2E
Drawn by Ruukki	Rev. 2		
Scale 1:5	Building		File nr.

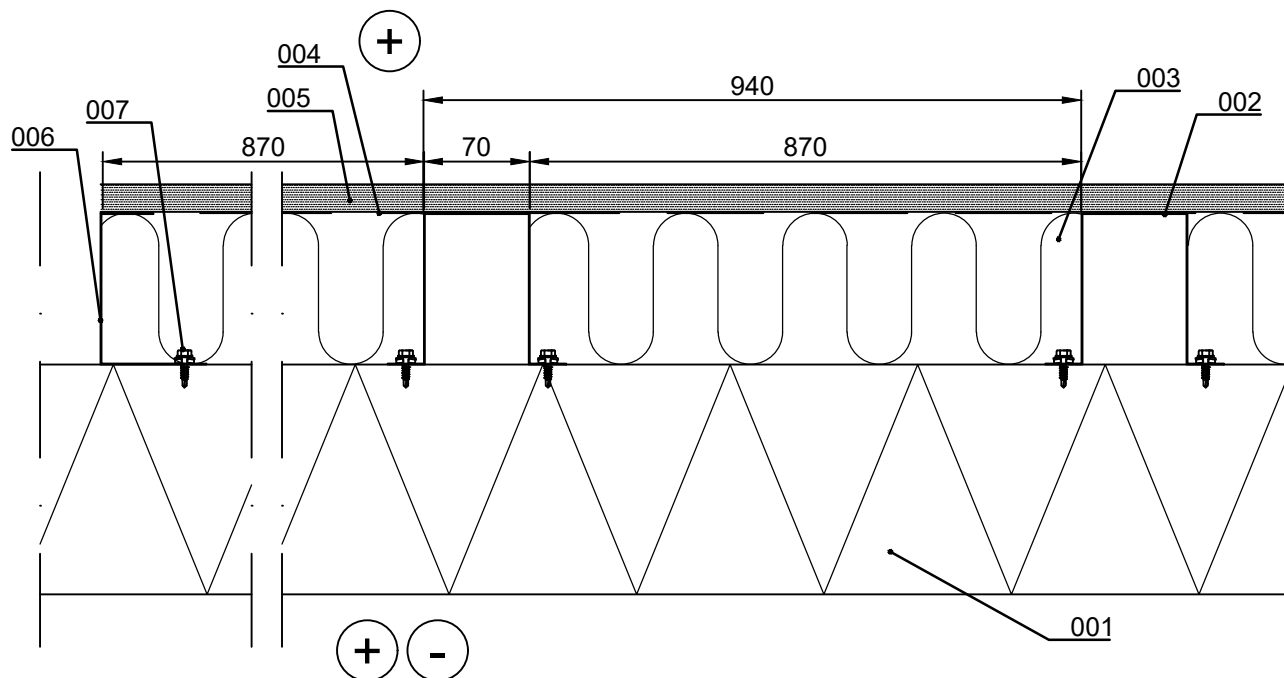
Typical sandwich panel sound insulation level is between R_w 29 - 31dB. Panel surfaces are sound reflective in nature without sound absorption. Added sound absorption layer increase sandwich panel sound insulation property as well. Amount of increased R_w value in dB's is very similar installed with another type of sandwich panel. The sound absorption layer can also be used on partition board wall or ceiling.

SPA150E + 100 mm acoustic structure

acoustic structure	R_w value improvement	R_w
one side	+ 10 dB	39 dB
both sides	+ 16 dB	45 dB

Practical absorption coefficient

Frequency	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	α_w	Class
α_p	0,60	1,00	1,00	1,00	1,00	0,95	1,00	A



- ☐ 001. Sandwich panel, SPA
- ☐ 002. Support stud CA1SS10
- ☐ 003. Glass wool slab, density ~15 kg/m³ (100 mm 565 mm x 870 mm)
- ☐ 004. Acoustic fabric, PET (106 m²/roll)
- ☐ 005. Ruukki Design profile with 30% perforating
- ☐ 006. Support stud CA1RS4
- ☐ 007. Screw S3H55022L02S4B, c/c 300

☒ Ruukki's delivery

The final execution always according to instructions of the structural designer