Drawing nr.	Contents of dra	wing				
AC01-SPA-1E-EN AC01-SPA-2E-EN	Acoustic claddi Acoustic claddi	ng 50 SPA ng 100 SPA				
City sector	Block	Site/Reg. nr.	File nr.			
	Block	Site/Reg. nr.	File nr. Drawing type			Nr.
Building type		Site/Reg. nr.		wing		Nr.
Building type		Site/Reg. nr.	Drawing type Contents of dra Acoustic			
Building type Building, Name and addres		Site/Reg. nr.	Drawing type Contents of dra			
Building type Building, Name and addres		Site/Reg. nr.	Drawing type Contents of dra Acoustic			
Ruukki Construction Oy Panuntie 11 00620 HELSINKI	tel. +358 (0) 20 55		Drawing type Contents of dra Acoustic			
Building type Building, Name and addres FUUKIKI Ruukki Construction Oy Panuntie 11	s		Drawing type Contents of dra Acoustic		Drw. nr.	



Contents of drawing

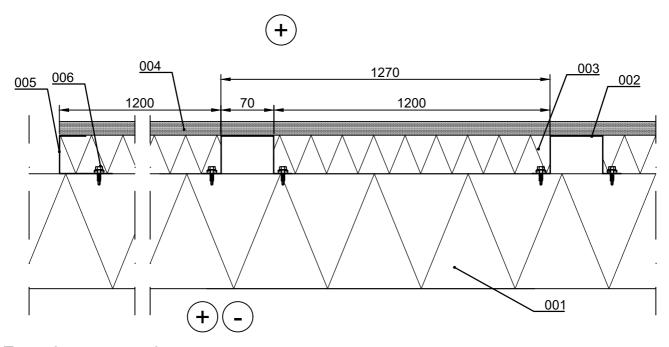
Acoustic cladding 50 01 SPA

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

Typical sandwich panel sound insulation level is between Rw 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 Rw 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 Rw value structure improvement Rw						
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	Α



- □ 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

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Contents of drawing

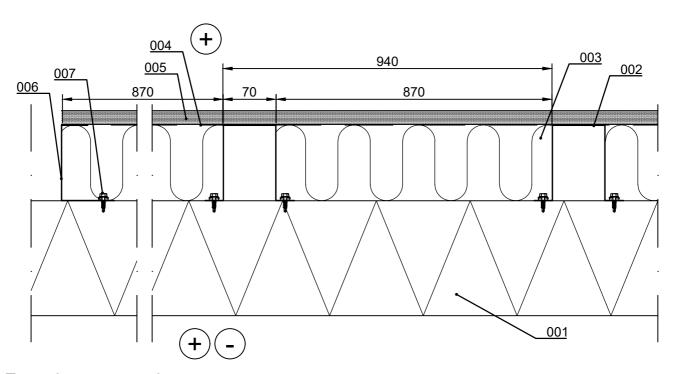
Acoustic cladding 100 01 SPA

			_		
Date	Rev. date	Work nr.	Drawing nr.		
30.09.2022	07.10.2025		AC01 SDA 3E		
Drawn by	Rev.		AC01-SPA-2E		
Ruukki	2				
Scale	Building		File nr.		
1:5					

Typical sandwich panel sound insulation level is between Rw 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 Rw 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	Rw					
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	Α



- □ 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

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