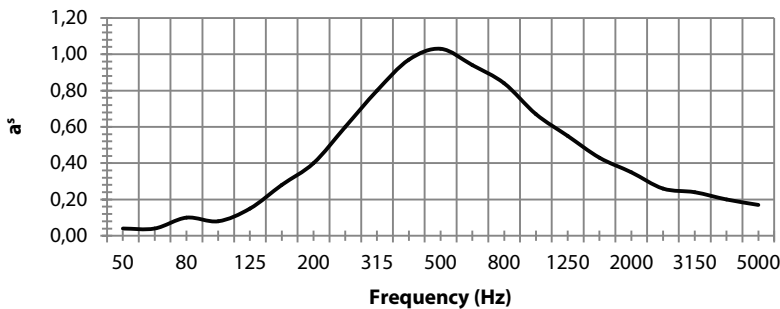


## PRODUCT PERFORMANCE - NOISE

### NOISE ABSORPTION

Measurements made at the accredited SP in accordance with ISO 354:2003. The method is a European standard EN ISO 354 and a Swedish standard SS-EN ISO 354. The evaluation is also made at SP according to ISO 11654. The method is a European standard EN ISO 11654 and the Swedish standard SS-EN ISO 11654. Four speaker positions and 6 microphone positions were used which gives 24 different combinations of measurement of reverberation time. Three reverb progressions were used using in an empty room to get an average. Five reverb progressions for each microphone/speaker combination were used for the test subject.



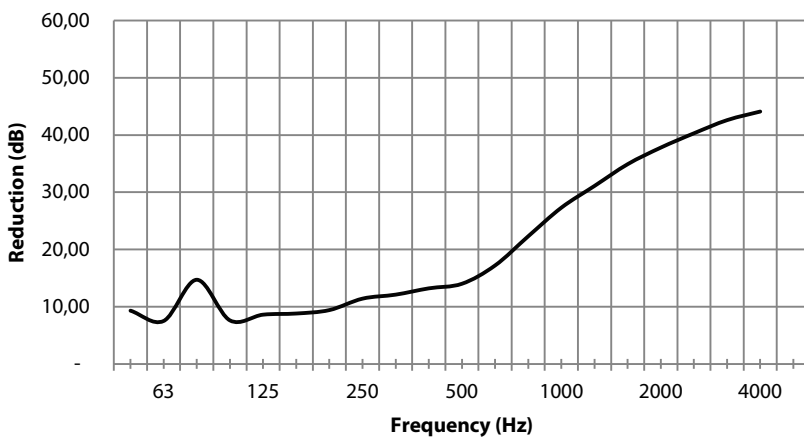
#### Results

**Noise absorption class: D**  
**Noise absorption factor: 0,35**

Fig 3. Test results from SP regarding noise absorbcency

### NOISE REDUCTION

Measurements have been performed at the accredited SP institute in accordance to ISO 140-3:1995 which is the current EU and Swedish standard. The results have been evaluated in terms of scaled sound reduction index in a laboratory, R<sub>w</sub> according international standard ISO 717-1:1996 of which SP is accredited to perform. The method is the current EU and Swedish standard.



#### Results

**R<sub>w</sub>** 21  
**(C: Ctr)** (-1;-4)  
**50-3150** (-1;-4)  
**50-5000** (0;-4)  
**R average** 21,2  
**Sum. Deviation** 28,4  
**Max. Deviation** 7  
**Frequency** 500

Fig. 4, Noise reduction results from SP

## PRODUCT PERFORMANCE - THERMAL CONDUCTIVITY

Thermal conductivity were determined according to EN 12667 and thickness according to EN 823 with 250 Pa measuring pressure.

### Results

<b>Thermal insulance</b>	1,11 m <sup>2</sup> K/W
<b>Thermal conductivity</b>	0,8 W/(m <sup>2</sup> K)(surface thermal insulance 0,17 m <sup>2</sup> K/W)
<b>Density of heat flow rate</b>	15,7 W/m <sup>2</sup>
<b>Temperature difference above specimen</b>	17,4°C

