

Measurement 1 (Asona Sonacoustic G, depth of hollow space 400 mm):

- Asona Sonaplaster G, thickness of coating 1 mm
- Glass fibre matting 45 g/m²
- Gypsum plasterboard, d = 12.5 mm, perforated, perforation 12/25 R, perf. area 33.9%
- Acoustic felt
- PE-Foil, d = 23 µm

Table 2: Practical Sound Absorption Coefficient α_P

F _{Octave} in Hz	125	250	500	1000	2000	4000
α_S (Mean Value)	0,52	0,51	0,53	0,55	0,63	0,71
Shifted Reference Curve	--	0,40	0,60	0,60	0,60	0,50
α_P	0,50	0,50	0,55	0,55	0,65	0,70

The evaluated sound absorption coefficient α_w is: **$\alpha_w = 0.60$**

The test set-up is to be classified in the **Sound Absorber Class C**.

Measurement 2 (Asona Sonacoustic G, depth of hollow space 200 mm):

- Asona Sonaplaster G, thickness of coating 1 mm
- Glass fibre matting 45 g/m²
- Gypsum plasterboard, d = 12.5 mm, perforated, perforation 12/25 R, perf. area 33.9%
- Acoustic felt
- PE-Foil, d = 23 µm

Table 3: Practical Sound Absorption Coefficient α_P

F _{Octave} in Hz	125	250	500	1000	2000	4000
α_S (Mean Value)	0,42	0,52	0,59	0,61	0,66	0,75
Shifted Reference Curve	--	0,45	0,65	0,65	0,65	0,55
α_P	0,40	0,50	0,60	0,60	0,65	0,75

The evaluated sound absorption coefficient α_w is: **$\alpha_w = 0.65$**

The test set-up is to be classified in the **Sound Absorber Class C**.

Photo 1: Asona Sonacoustic G, with Asona Sonaplaster G, thickness 1 mm, depth of hollow space 400 mm

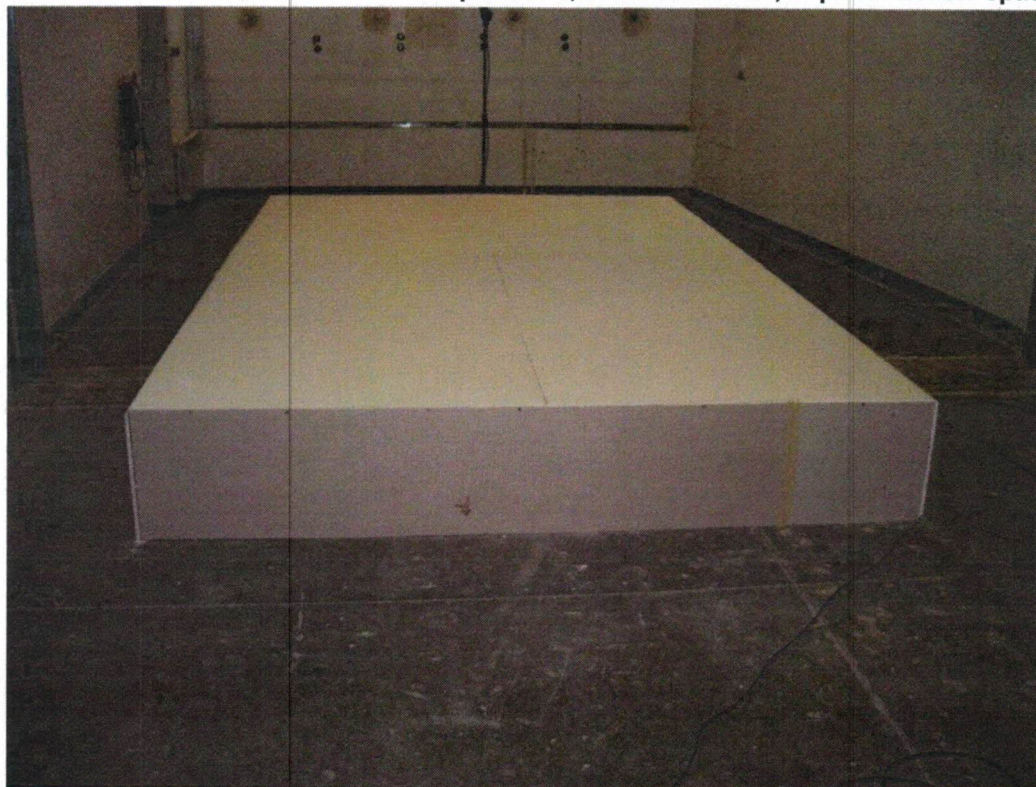


Photo 2: Asona Sonacoustic G, with Asona Sonaplaster G, thickness 1 mm, depth of hollow space 200 mm

