

Test structure No.1 – Preliminary Measuring Results

Test date: December 3rd, 2015 in reverberation chamber
 Customer: Okkastyle Ltd., Filosoofi str. 23-5, Tartu, Tartumaa 50108
 Test object: S 10907-01, 3 acoustic panels close to each other were tested lying on the reverberation chamber floor. Middle panel with wooden frame (40mm x 12mm), left and right panel with aluminum frames (40mm x 4mm).
 Measures of one element: 1.66m x 2.74m x 0.1m (l x b x h).
 Composition: 40mm pine needles, 2mm flax linen, 10mm woolen felt mat (layers glued one under another) sized with wooden or aluminum frames. Between frame profiles 40mm thick woolen felt stripes and 10mm thick wooden stripes in sequence.
 Surface related element weight: 14kg/m². Test format: 3 x 1 and all around permanent plastic sealed to reverberation chamber floor.
 Measuring results: evaluated absorption grade according to DIN EN ISO 11654: 1997: $\alpha_w = 1.00$
 Absorber class according to DIN EN ISO 11654: A

f [Hz]	α_s
100	0,17
125	0,24
160	0,47
200	0,61
250	0,83
315	0,99
400	1,03
500	1,03
630	1,05
800	1,03
1000	1,04
1250	1,00
1600	1,01
2000	0,98
2500	0,99
3150	0,98
4000	0,99
5000	0,96

