

# Membrane, group of 24 objects hanging free, pattern A

SOUND ABSORPTION AREA ACCORDING TO ISO 354 AND SS 25269

Measurement of sound absorption area in a reverberation room



Report number:  
15-226-M7  
Date  
2015-11-11

| Frequency<br>f<br>[Hz] | Sound absorption<br>area<br>[m <sup>2</sup> Sabine] |     |
|------------------------|---|-----|
| 50                     | 0.02  |     |
| 63                     | 0.05  | 0.0 |
| 80                     | 0.01  |     |
| 100                    | 0.01  |     |
| 125                    | 0.10  | 0.1 |
| 160                    | 0.11  |     |
| 200                    | 0.10  |     |
| 250                    | 0.15  | 0.2 |
| 315                    | 0.28  |     |
| 400                    | 0.27  |     |
| 500                    | 0.47  | 0.5 |
| 630                    | 0.89  |     |
| 800                    | 1.02  |     |
| 1000                   | 1.06  | 1.1 |
| 1250                   | 1.23  |     |
| 1600                   | 1.33  |     |
| 2000                   | 1.39  | 1.5 |
| 2500                   | 1.64  |     |
| 3150                   | 1.67  |     |
| 4000                   | 1.59  | 1.6 |
| 5000                   | 1.67  |     |

Client: Effect  
 Manufacturer: Effect  
 Product identification: Membrane

Description of test specimen: Two groups of 24 small objects of pressed felt hanging free. The scaling of the graph deviates from ISO 354 to increase readability.

Reverberation room volume: 200 m<sup>3</sup>  
 Temperature: 15.2 °C (empty: 14.7 °C)  
 Air humidity: 62 % (empty: 63 %)  
 Air pressure: 97.6 kPa (empty: 97.6 kPa)  
 Number of specimens: 2

Measurement date: 2015-11-10  
 Measured by: Carl Nyqvist

