Supplementary Materials for “Parametric Design of a Ceiling with the Ammann–Beenker Tiling”

The precise sound simulation data provided by NAGATA ACOUSTICS.

• Yellow dot: position of the source sound
• Red arrow: the primary reflection
• Yellow arrow: the secondary reflection
• Green arrow: the tertiary reflection

Figure 1: The case when the ceiling is flat.
Figure 2: The case when the shape of ceiling is optimized.