Claims:

1. System for a construction of a sound insulation element to be arranged in a ceiling area of a building, comprising a frame (2) and a sound insulation panel to be inserted into the frame (2), in particular of mineral fibers bonded with binding agents, wherein components for constructing the frame (2) are combined in a first assembly (1) with the minimum required components for forming a closed frame (2) and, wherein the minimum required components comprises at least eight profile elements (4) , each profile element extending along a longitudinal axis between a mitered end face and a butting face, wherein the mitered end face forms an angle to the longitudinal axis of between 0° and 90° and the butting face forms an angle to the longitudinal axis of 90°, wherein the first assembly further comprise connecting elements (7, 8), in particular first and second connecting elements (7, 8) each having connecting portions (27, 33) being arranged in mirror image, and where the profile elements (4) are designed to be compatible with one another, and the profile elements (4) of the first assembly (1) being identical in cross-section and comprises at least two receptacles (19, 25) for inserting the connecting portions (27, 33) of the first and the second connecting elements (7, 8).

2. System according to claim 1, comprising a second assembly (11) of components for the extension of the length and /or width of the sound insulation element.

3. System according to claim 2, wherein the components of the second assembly comprise at least two profile elements extending along a longitudinal axis between two butting faces, where the butting faces forms angles to the longitudinal axis of 90°.

4. System according to claim 2 or 3, wherein both assemblies (1; 11) comprise connecting elements (7, 8) in particular first and second connecting elements

(7, 8) and profile elements (4) which are designed to be compatible with one another, the profile elements (4) of the first and second as well as of any further assembly (1; 11; 12) being identical in cross-section.

5. System according to any one of the claims 1 – 4, wherein the connecting portions (27, 33) of at least some of the connecting elements (7, 8) are aligned with each other at an angle of 90°.

6. System according to any one of the claims 1 – 5, wherein the connecting portions (27, 33) of at least some of the connecting elements (7, 8) are aligned with each other at an angle of 180°.

7. System according to any one of the claims 1 - 6,
characterized in that
the profile elements (4) are substantially L-shaped in cross-section, have a first leg (17) and a second leg (18), and wherein the first leg (17) comprises the receptacle (19) for the first connecting element (8) and the second leg (18) comprises the receptacle (25) for the second connecting element (7).

8. System according to any one of the claims 1 – 7,
characterized in that
two connecting elements (7, 8) connecting two profile elements (4) are interconnected, preferably via a plate member (40) adapted to an end face of the profile elements (4) and covering the end face.

9. System according to any one of the claims 1 – 8,
characterized in that
the profile element (4) has, in the region of the receptacle (19), an opening for receiving a screw fixing the connecting element (8) in the receptacle (19) or in that the connecting element (8) is fixed to the profile element (4) by a self-tapping screw.

10. System according to any one of the claims 1 – 9,
characterized in that
the first assembly (1), the second assembly (11) and/or a further assembly (12) comprises at least one support profile (14) which can be connected to oppositely arranged profile elements (4) by means of two connectors (47) to be arranged at the ends of the support profile (14).

11. System according to any one of the claims 1 – 10, wherein the profile element (4) has at least one marking, in particular a notch or a groove (23), in the region of the inner surface (22) which extend in the direction of the longitudinal axis of the profile element (4).

12. System according to any one of the claims 12 – 11,
characterized in that
the receptacle (55) is U-shaped in cross-section and has a web (56) and a first leg (57) and a second leg (58), the first leg (57) and the second leg (58) being angled towards one another at their free ends in such a way that supports (59) are formed for the part (65) of the support profile (14) to be received in the receptacle (55).

13. System according to any one of the claims 1 – 12,
characterized in that
the connecting portions (33) of the first connecting elements (8) comprise a plurality of ribs (34) which are aligned parallel and in the same direction, the ribs (34) being arranged tilted at an angle of between 30° and 60°, in particular of 45°, relative to the longitudinal axis of the connecting portion (8).

14. System according to claim 13,
characterized in that
the ribs (34) of the two connecting portions (33) of a first connecting element (8) are arranged tilted in opposite directions relative to the longitudinal axes

of the connecting portions (33).

15. System according to any one of the claims 1 – 14,
characterized in that
the second connecting elements (7) are formed of a plate (28) respectively having two regions of undulating shape along longitudinal sides and/or having two end faces (29) in the shape of a segment of a circular arc.

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