CLAIMS

1. A connection structure between partition walls and a floor slab, the connection structure being configured to connect an upper first partition wall and a lower second partition wall to the floor slab, the upper first partition wall and the lower second partition wall separating a vertical compartment from an upper floor room and a lower floor room that are located adjacent to the vertical compartment and above and below the floor slab,

wherein a lower runner, configured to accommodate a lower end of a first stud that forms the first partition wall, is placed on the floor slab,

wherein an upper runner, configured to accommodate an upper end of a second stud that forms the second partition wall, is placed below the floor slab,

wherein a first wall material is fixed to the first stud through a first back batten and fixed to the second stud through a second back batten, the first wall material extending from the first stud to the second stud in the vertical compartment,

wherein the first partition wall is formed by a second wall material, the first stud, the lower runner, and the first wall material, the second wall material forming the upper floor room,

wherein the second partition wall is formed by a third wall material, the second stud, the upper runner, and the first wall material, the third wall material forming the lower floor room,

wherein the first back batten extends in a vertical direction between the first stud and the first wall material,

wherein the second back batten extends in the vertical direction between the second stud and the first wall material,

wherein each of the first back batten and the second back batten has a same thickness,

wherein the lower runner is set back by the thickness of the first back batten toward the upper floor room relative to an end face on a vertical compartment side of the floor slab, and

wherein the upper runner is set back by the thickness of the second back batten toward the lower floor room relative to the end face on the vertical compartment side of the floor slab.

2. The connection structure between the partition walls and the floor slab according to claim 1, wherein the lower runner is fixed to the floor slab by a fixing member, and

wherein the upper runner is fixed to a runner receiver by a fixing member, and the runner

receiver is directly or indirectly fixed to the floor slab.

3. The connection structure between the partition walls and the floor slab according to claim 2, wherein the floor slab is supported by a floor beam,

the runner receiver is fixed to the floor beam, and the upper runner is fixed to the runner receiver.

4. The connection structure between the partition walls and the floor slab according to any one of claims 1 to 3, wherein a refractory is provided between the end face on the vertical compartment side of the floor slab and the first wall material.

5. The connection structure between the partition walls and the floor slab according to any one of claims 1 to 4, wherein each of the first wall material, the second wall material, and the third wall material has a stacked structure in which a base layer material and a top layer

material are stacked in a thickness direction of the partition walls.

6. A building comprising:

the connection structure between the partition walls and the floor slab according to any one of claims 1 to 5.

7. A method for constructing a connection structure between partition walls and a floor slab, the connection structure being configured to connect an upper first partition wall and a lower second partition wall to the floor slab, the upper first partition wall and the lower second partition wall separating a vertical compartment from an upper floor room and a lower floor room that are located adjacent to the vertical compartment and above and below the floor slab, and the method comprising:

performing a runner placement process;

performing a stud installation process; and

performing a partition wall forming process,

wherein the runner placement process includes

placing a lower runner on the floor

slab, the lower runner being configured to accommodate a lower end of a first stud that forms the first partition wall, and

placing an upper runner below the floor slab, the upper runner being configured to accommodate an upper end of a second stud that forms the second partition wall,

wherein the stud installation process includes

after accommodating and installing the lower end of the first stud in the lower runner, attaching a first back batten to a surface on a vertical compartment side of the first stud, and

after accommodating and installing the upper end of the second stud in the second runner, attaching a second back batten to a surface on a vertical compartment side of the second stud,

wherein the partition wall forming process includes

fixing a first wall material to the first stud through the first back batten and to the second stud through the second back batten, the first wall material extending from the first stud to the second stud in the vertical compartment,

fixing a second wall material to the first stud such that the first partition wall is formed by the second wall material, the first stud, the lower runner, and the first wall material, the second wall material forming the upper floor room, and

fixing a third wall material to the second stud such that the second partition wall is

formed by the third wall material, the second stud, the upper runner, and the first wall material, the third wall material forming the lower floor room,

wherein the first back batten extends in a vertical direction between the first stud and the first wall material,

wherein the second back batten extends in the vertical direction between the second stud and the first wall material,

wherein each of the first back batten and the second back batten has a same thickness,

wherein the lower runner is set back by the thickness of the first back batten toward the upper floor room relative to an end face on a vertical compartment side of the floor slab, and

wherein the upper runner is set back by the thickness of the second back batten toward the lower floor room relative to the end face on the vertical compartment side of the floor slab.

8. The method for constructing the connection structure between the partition walls and the floor slab according to claim 7, further comprising:

performing a floor slab construction process for constructing the floor slab so to be supported by a floor beam,

wherein, in the runner placement process,

a runner receiver is fixed to the floor beam, and the upper runner is fixed to the runner receiver.