CLAIMS

1. A facade assembly (14) for a building (10), comprising:

at least one facade element (16), which can be secured to a story outer edge (13) of the building (10), and

at least one fire-protection element (18), which is installed between the facade element (16) and the story outer edge (13),

characterized in that the fire-protection element (18) comprises an insulating layer (19) and a fire-protection mat (32),

wherein the insulating layer (19) has a first side face (36) facing the facade element (16) and a second side face (38), which is disposed opposite the first side face (36) and faces the story outer edge (13), and a bottom face (40), which extends between the first and second side face (36, 38), and

wherein the fire-protection mat (32) wraps around the bottom face (40) of the insulating layer (19) and bears against at least one part of the first and second side face (36, 38), wherein the fire-protection mat (32) has at least one frayed rim portion (42).

2. A facade assembly according to claim 1, characterized in that the frayed rim portion (42) bears against the facade element (16) and/or the story outer edge (13).

3. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) has two rim portions (42) disposed opposite one another, wherein one of the rim portions (42) engages in the first side face (36) and the other rim portion (42) engages in the second side face (38).

4. A facade assembly according to one of the preceding claims, characterized in that the insulating layer (19) is a mineral-wool insulating layer.

5. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) is formed from one of the following materials: glass

fibers, silicon fibers, calcium magnesium silicate fibers, mineral fibers on the basis of SiO_2 and CaO, basalt fibers, ceramic fibers such as fibers of boron carbide/silicon nitride, stainless steel and coated flexible inorganic fibers that have a melting point of higher than 1200°C.

6. A facade assembly according to claim 5, characterized in that the fire-protection mat (32) is a coated or uncoated textile material.

7. A facade assembly according to claim 6, characterized in that the textile material is selected from glass-fiber fabrics, silicone-coated glass-fiber fabrics, fabrics of silicon fibers, temperature-stabilized glass-fiber fabrics, which retain their tensile strength in the presence of thermal stresses, with or without reinforcement by stainless-steel wire, high-temperature-resistant needled mats and silicone-coated stainless-steel wire fabrics as well as mixed fabrics made from the said materials and mixed fibers containing inorganic fibers of boron carbide and silicon nitride.

8. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) has a coating of at least one of the following materials: ceramic coatings, silicate coatings, metal oxide coatings and silicone coatings.

9. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) is fastened to the facade element (16) and the story outer edge (13), especially by adhesive bonding, clamping, bolting or nailing.

10. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) is magnetic and the facade element (16) and/or the story outer edge (13) is/are metallic, wherein the fire-protection mat (32) is fastened by magnetic force to the facade element (16) and/or the story outer edge (13).

11. A facade assembly according to claim 1, characterized in that the fire-protection mat completely surrounds the insulating layer (19).

12. A facade assembly according to one of the preceding claims, characterized in that the fire-protection mat (32) consists of an elastic material and is fastened under preload between the facade element (16) and the story outer edge (13).

13. A facade assembly according to one of claims 1 to 11, characterized in that the fire-protection mat (32) is disposed at a distance from the bottom face (40) of the insulating layer (19).

14. A building structure using a facade assembly (14) according to one of claims 1 to 13, wherein the building structure comprises at least one story outer edge (13) and at least one facade element (16), which can be fastened to the story outer edge (13) of the building (10), wherein a joint (20) is formed between the facade element (16) and the story outer edge (13), and comprises at least one fire-protection element (18), which is installed in the region of the joint (20) between the facade element (16) and the story outer edge (13), characterized in that the fire-protection element (18) comprises an insulating layer (19) and a fire-protection mat (32), wherein the insulating layer (19) has a first side face (36) facing the facade element (16) and a second side face (38), which is disposed opposite the first side face (36) and faces the story outer edge (13), and a bottom face (40) extending between the first and second side face (36, 38), wherein the fire-protection mat (32) wraps around the insulating layer (19) at the bottom face (40) and bears against at least one part of the first and second side face (36, 38).

15. A method for mounting a facade assembly (14) for a building (10) according to one of claims 1 to 13, with at least one facade element (16), which can be fastened to a story outer edge (13) of the building (10), and with at least one fire-protection element (18), which is installed between the facade element (16) and the story outer edge (13), wherein the fire-protection element (18) comprises an insulating layer (19) and a fire-protection mat (32), with the following steps:

– attachment of the facade element (16) to the story outer edge (13) of the building (10), wherein a joint (20) is formed between the facade element (16) and the story outer edge (13), and
- Introduction of the fire-protection element (18) into the joint (20) between the facade element (16) and the story outer edge (13) of the building (10), so that the fire-protection mat (32) wraps around the insulating layer (19) at a bottom face (40), and so that the fire-protection mat (32) bears at least partly against the facade element (16) and the story outer edge (13).

16. A method according to claim 15, characterized in that the fire-protection element (18) together with the insulating layer (19) and the fire-protection mat (32) is inserted on a floor side into the joint (20) between the facade element (16) and the story outer edge (13).