

Claims

1. Ventilating firestop (10), comprising a self-supporting mesh (12) fitted with an intumescent (14), characterised in that
5 the mesh (12) is malleable to a completely or partially confined volume (22), and
intumescent (14) applied to the mesh (12) forms a stripe pattern of intumescent with spacing and ventilating openings (30) between the stripes,
wherein at least intumescent (14) in a plane which is influenced by fire
10 comprises a fine meshed and a rapidly expandable stripe pattern which, during a fire attack phase, closes said openings (30) and forms a fire-insulating shield (40) between the stripes, and
intumescent (14) located separated from the shield (40), after formation of the shield (40), is expandable to subsequently fill up the remaining volume (22) of the
15 firestop (10).
2. Ventilating firestop (10) according to claim 1, characterised in that the finely meshed stripes (14) of intumescent have a surface and a short mutual distance which, under the influence of heat, is enough for the stripes (14) to rapid expand
20 towards each other during the fire attack phase for the formation of the shield (40).
3. Ventilating firestop according to claim 1, characterized in that intumescent (14) located inside or outside the shield (40) forms a coarse meshed and slower expandable stripe pattern which fill out the volume (22) for long lasting fire insulation.
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4. Ventilating firestop in accordance with claim 1, characterised in that the mesh (12) is designed as a flame-stopping mesh with a mesh size that provides quenching gap.
- 30 5. Ventilating firestop (10) according to claim 1, characterised in that said intumescent (14) is applied to the mesh (12) in a stripe pattern of parallel intumescent stripes.
6. Ventilating firestop (10) according to claim 1, characterised in that said
35 intumescent (14) is applied to the mesh (12) in a check pattern of intumescent stripes.

7. Ventilating firestop (10) according to claim 1, characterised in that said intumescent (14) is applied to the mesh (12) as a stripe pattern made wholly or partly in the form of closed and evenly distributed dots or upright pins or in the form of wires distributed in an air volume up to the mesh.
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8. Ventilating firestop according to claim 1, characterised in that the mesh (12) is produced in sheet form with longitudinal side edges (32), where one or both of the longitudinal side edges (32) comprises a mounting flange (16).
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9. Ventilating firestop according to claim 1, characterised in that the mesh (12) is produced in a sheet form or is cut into a sheet form with longitudinal side edges (32), and that one or more side edges (32) are folded to, or fitted onto, a mounting flange (16).
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10. Ventilating firestop according to claim 8 or 9, characterised in that mounting flanges (16) on said side edges (32) are arranged for locking engagement with each other.
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11. Ventilating firestop according to claim 1, characterised in that the mesh (12) comprises longitudinally running side edges (32), where a first side edge is formed with an S-shape (24) and a second side edge is formed with a hemispherical shape (26), the hemispherical shape (26) is arranged for locking engagement by insertion under the S-shape (24) when this is attached to a base (20).
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12. Ventilating firestop according to claim 1, characterised in that the mesh is a malleable and spring-loaded mesh (12) comprising spring wires (28) for formation of a spring-loaded effect.
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13. Ventilating firestop according to claim 12, characterised in that said malleable and spring-loaded mesh (12) is produced with braided steel wires (34) equipped with transverse-running spring wires (28) for the formation of the spring-loaded effect.
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14. Ventilating firestop according to claim 12, characterised in that said malleable and spring-loaded mesh (12) is produced with knitted steel wires (34) equipped with transverse-running spring wires (28) for the formation of the spring-loaded effect.

15. Ventilating firestop according to claims 3 and 13 or 14, characterised in that said transverse-running spring wires (28) are arranged at a mutual distance apart in the longitudinally running direction of the mesh (12) which is larger than the quenching gap and smaller than the maximum mesh size to prevent fall out of expanded intumescent.
16. Ventilating firestop according to claim 1, characterised in that said firestop comprises an expansion pocket (44), said expansion pocket comprises an expandable intumescent (14) interposed between several meshes (12).
17. Ventilating firestop according to claims 12, 13 or 14, characterised in that one or more of said spring wires (28) and/or steel wires (34) are covered with an intumescent (14) and are connected to a power source (38), with said wires arranged as heating wire(s) to activate the intumescent.
18. Ventilating firestop according to claim 1, characterised in that said intumescent (14) is powder/electrode lacquered with metal or is coated by nano-fiber surfaces.
19. Ventilating firestop according to claim 1, characterised in that said (14) intumescent is extruded, glued, brushed or sprayed onto the mesh (12) in parallel or in intersections with ventilating mesh openings (30) between, in one or more layers.
20. Ventilating firestop according to claim 1, characterised in that said (14) intumescent is attached with seams to the mesh (12), such as seams of sacrificial-based polyester or cotton.
21. Ventilating firestop in accordance with claim 1, characterised in that said firestop comprises several meshes (12) with inlaid, intermediate intumescent stripes (14) between respective meshes (12) with quenching gap.