CLAIMS

1. A plasterboard comprising a first layer of plaster and a second layer of plaster, characterized in that the first layer comprises activated carbon; the second layer comprises a fixing agent; the content of fixing agent in the first layer, expressed as percentage by weight of dry matter, is less than the content of fixing agent in the second layer; and the second layer is devoid of activated carbon, wherein the ratio by weight of the amount of fixing agent to the amount of activated carbon in the first layer of plaster is less than 1/10.

2. The plasterboard as claimed in claim 1, characterized in that the first layer has a thickness of 0.1 to 4 mm.

3. The plasterboard as claimed in either one of claims 1 and 2, characterized in that the first layer has a density of 0.8 to 1.5.

4. The plasterboard as claimed in any one of claims 1 to 3, characterized in that the first layer is devoid of fixing agent.

5. The plasterboard as claimed in any one of claims 1 to 4, characterized in that the second layer has a thickness of 6 to 25 mm.

6. The plasterboard as claimed in any one of claims 1 to 5, characterized in that the second layer has a density of 0.4 to 1.5.

7. The plasterboard as claimed in any one of claims 1 to 6, characterized in that the first layer has a density greater than the density of the second layer.

8. The plasterboard as claimed in any one of claims 1 to 7, characterized in that the activated carbon is a powdered activated carbon.

9. The plasterboard as claimed in any one of claims 1 to 8, characterized in that the activated carbon has a mean particle size of 1 to 100 µm.

10. The plasterboard as claimed in any one of claims 1 to 9, characterized in that said plasterboard comprises from 0.01 to 2% by weight of activated carbon, with respect to the dry weight of plaster.

11. The plasterboard as claimed in any one of claims 1 to 10, characterized in that the fixing agent is chosen from compounds comprising a hydrazide group, compounds comprising an active methylene and their mixtures.

12. The plasterboard as claimed in any one of claims 1 to 11, characterized in that said plasterboard comprises from 0.01 to 2% by weight of fixing agent, with respect to the dry weight of plaster.

13. A process for the manufacture of a plasterboard as claimed in any one of claims 1 to 12, said process comprising a forming stage, a setting stage and a drying stage, characterized in that the forming stage comprises:

- the provision of a first facing sheet;
- the pouring of a first mixed batch over the first facing sheet;
- the pouring of a second mixed batch over the first mixed batch;
- the provision of a second facing sheet over the second mixed batch; and
- the forming of the plasterboard using an extruder;

in which the first mixed batch comprises activated carbon; the second mixed batch comprises a fixing agent; the content of fixing agent in the first mixed batch, expressed as percentage by weight of dry matter, is less than the content of fixing agent in the second mixed batch; and the second mixed batch is devoid of activated carbon, wherein the ratio by weight of the amount of fixing agent to the amount of activated carbon in the first mixed batch is less than 1/10.

14. The process as claimed in claim 13, characterized in that the first mixed batch is devoid of fixing agent.

15. The use of a plasterboard as claimed in any one of claims 1 to 12 for reducing the amount of volatile organic compounds in the air inside buildings.