Comparative examples 1-2

Gypsum plasterboards were prepared from the compositions described below. A 2mm sheet of PVC was glued to one face of each plasterboard using Aquagrip 29860 glue.

Comparative example 1

A gypsum plasterboard was prepared from a slurry containing stucco and desulphogypsum (DSG), the DSG being present in an amount of 31 wt% relative to the stucco. The slurry additionally contained the following ingredients:

- glass fibre in an amount of 0.46 wt% relative to the stucco and DSG;
- 0.85 wt% Collofilm 120 starch.

Comparative example 2

A gypsum plasterboard was prepared from a slurry containing stucco and desulphogypsum (DSG), the DSG being present in an amount of 31 wt% relative to the stucco. The slurry additionally contained the following ingredients:

- glass fibre in an amount of 0.46 wt% relative to the stucco and DSG;
- 0.85 wt% Collofilm 120 starch;
- ethylated starch in an amount of 2.9 wt% relative to the amount of stucco and DSG (the starch is available from Grain Processing Corporation under the trade name Coatmaster K57F).

Comparative examples 3-4

Gypsum plasterboards were prepared from the compositions described below.

Comparative example 3

A gypsum plasterboard was prepared from a slurry containing the following ingredients:

- stucco;
- glass fibre in an amount of 2 wt% relative to the stucco, the fibre length being about 6mm;
- acid hydrolysed maize starch (from Tate & Lyle) in an amount of 5 wt% relative to the stucco;

The average screw pull-out strength, measured on four samples, was 458N.

Comparative example 4

A gypsum plasterboard was prepared from a slurry containing the following ingredients:

- stucco;
- glass fibre in an amount of 2 wt% relative to the stucco, the fibre length being about 6mm;
- acid hydrolysed maize starch (from Tate & Lyle) in an amount of 5 wt% relative to the stucco;
- silicone oil in an amount of 1 wt% relative to the stucco.

The average screw pull-out strength, measured on four samples, was 410N.

Comparative Example 5

Comparative Example 5 is a gypsum fibreboard comprising paper fibres bound by a calcium sulphate binder (Rigidur board from British Gypsum).

Comparative examples 1-2

Gypsum plasterboards were prepared from the compositions described below. A 2mm sheet of PVC was glued to one face of each plasterboard using Aquagrip 29860 glue.

Comparative example 1

A gypsum plasterboard was prepared from a slurry containing stucco and desulphogypsum (DSG), the DSG being present in an amount of 31 wt% relative to the stucco. The slurry additionally contained the following ingredients:

- glass fibre in an amount of 0.46 wt% relative to the stucco and DSG;
- 0.85 wt% Collofilm 120 starch.

Comparative example 2

A gypsum plasterboard was prepared from a slurry containing stucco and desulphogypsum (DSG), the DSG being present in an amount of 31 wt% relative to the stucco. The slurry additionally contained the following ingredients:

- glass fibre in an amount of 0.46 wt% relative to the stucco and DSG;
- 0.85 wt% Collofilm 120 starch;
- ethylated starch in an amount of 2.9 wt% relative to the amount of stucco and DSG (the starch is available from Grain Processing Corporation under the trade name Coatmaster K57F).

Examples 13-14

Gypsum plasterboards were prepared from the compositions described below.

Example 13

A gypsum plasterboard was prepared from a slurry containing the following ingredients:

- stucco;
- glass fibre in an amount of 2 wt% relative to the stucco, the fibre length being about 6mm;
- acid hydrolysed maize starch (from Tate & Lyle) in an amount of 5 wt% relative to the stucco;

The average screw pull-out strength, measured on four samples, was 458N.

Example 14

A gypsum plasterboard was prepared from a slurry containing the following ingredients:

- stucco;
- glass fibre in an amount of 2 wt% relative to the stucco, the fibre length being about 6mm;
- acid hydrolysed maize starch (from Tate & Lyle) in an amount of 5 wt% relative to the stucco;
- silicone oil in an amount of 1 wt% relative to the stucco.

The average screw pull-out strength, measured on four samples, was 410N.

Comparative Example 5

Comparative Example 5 is a gypsum fibreboard comprising paper fibres bound by a calcium sulphate binder **(**Rigidur board from British Gypsum**).**