

TECHNICAL DATA SHEET

INSTALLING PARQUET AND FLOORING ON GYPSUM FIBREBOARD (UG 5)

WHAT IS GYPSUM FIBREBOARD?

This type of prefab panel is a fibre-reinforced gypsum board (widely known as Fermacell or Knauf dry screed) which is used in both wall and floor applications.

- ✓ Homogeneous structure consisting of gypsum and paper fibres. This mixture is compressed to a nominal thickness.
- ✓ When used in the floor area, there are a variety of construction options, so that various requirements for noise protection or thermal insulation can be met.
- ✓ Gypsum fibreboard is not as strong as CT-C25-F4 cement screed.

NOTE IN FLOOR CONSTRUCTIONS WITH GYPSUM FIBREBOARD:

- ✓ To accommodate parquet, it is advisable to ask the manufacturer of the gypsum fibre flooring board for corresponding approval for the relevant floor structure.
- ✓ If the gypsum fibre flooring boards are installed as a floating construction according to the manufacturer's instructions and bonded to wood types (e.g. maple, beech) and/or to parquet dimensions (e.g. 10 mm solid parquet, 22 mm finger parquet) which are sensitive to swelling pressure, it should be noted that if high swelling pressure (e.g. high humidity) occurs, strong tension can build up in the parquet top surface, which can result in the floor construction welling up.

INSTALLING PARQUET AND FLOORING ON GYPSUM FIBREBOARD:

- ✓ Gypsum fibre flooring boards are suitable for resilient and textile floor coverings and parquet. In general, it is advisable to consult the manufacturers of the gypsum fibre laying elements, the parquet and the floor coverings to obtain their approval.
- ✓ The parquet can be bonded with STAUF solvent-free reactive resin adhesives (SMP, SPU, PUK types), but the use of dispersion based parquet adhesives is not possible on gypsum-based screed elements.
- ✓ The bond attained by the adhesives which we recommend is ensured by carrying out the appropriate substrate preparation, while the inherent strength of the installation panel determines the strength of the bond.
- ✓ A surface covered with prefab panels forms a relatively even and level surface. The risk of cavities forming during parquet installation is therefore generally much lower than with installation on a cement screed, for example.

Almost all types of floor coverings and parquet (preferably only multilayer and mosaic parquet) can be stuck on gypsum fibre installation boards, using adhesives from the STAUF range, in accordance with the table below. STAUF adhesive application tables should be taken into account when selecting appropriate types of adhesive.

APPLICABLE PRIMERS FOR ADHESIVES/LEVELLING COMPOUNDS ON GYPSUM FIBREBOARD PANELS

| | STAUF flooring adhesives | STAUF Reactive resin adhesives | STAUF XP 40 + reinforcement fibres | STAUF GS |
|-----------------|--------------------------|--------------------------------|------------------------------------|-----------------|
| STAUF VDP 130 | ✓ | | ✓ | ✓ |
| STAUF VDP 160 | ✓ | | ✓ | ✓ |
| STAUF D 54 | ✓ | | ✓ | ✓ |
| STAUF VPU 155 S | | ✓ ¹⁾ | ✓ ²⁾ | ✓ ²⁾ |
| STAUF WEP 180 | | ✓ ¹⁾ | ✓ ²⁾ | ✓ ²⁾ |
| STAUF VEP 195 | | ✓ ¹⁾ | ✓ ²⁾ | ✓ ²⁾ |

1) usually not necessary

2) in combination with levelling compounds + STAUF quartz sand

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APPLICABLE ADHESIVE SYSTEMS

| | STAUF flooring adhesives | STAUF reactive resin adhesives | Substrate preparation |
|--|---------------------------------|--------------------------------|--|
| Textile floorings | ✓ | | Clean the substrate well; depending on its condition and requirements, prime and fill. |
| Resilient flooring | ✓ | | |
| Linoleum | ✓ | | |
| Laminate flooring (full-surface bonding) | | ✓ | |
| Solid wood flooring ¹⁾ | | ✓ | |
| Multi-layer parquet | | ✓ | |
| Wood block | Bonding generally not possible. | | |

1) preferably only mosaic parquet, please ask us.

The information provided above corresponds to the current state of the art. The information is purely indicative and non-binding, since we have no control over the laying process and because the actual laying conditions on site vary. Therefore no claims can be made based on this information. The same is true for the commercial and technical advisory services that are provided without obligation and free of charge. We therefore recommend carrying out sufficient testing of your own in order to determine whether the result is suitable for the intended purpose.