

## PARQUET AND FLOORING ON PLASTERBOARDS (UG 6)

### WHAT ARE PLASTERBOARD?

This type of drywall consists of a gypsum core which is coated with special cardboard without cellulose fibers and looks similar to gypsum fibre boards. These boards are mainly used as dry floor screeds in floor construction or in areas where higher compressive, flexural or shear strengths are required. Gypsum plasterboards are usually „buttjointed“ during installation, so they usually don't have a shiplap or a tongue and groove connection. They are used in dry mortarless construction, mainly for interior construction (e.g. metal stud walls or ceiling systems) and are regulated by standards in both DIN EN 520 and DIN 18180. In addition to the usual information on the quality, dimensions or requirements, plasterboards are divided into categories and described in the standards. These categories include type A = „standard gypsum board“ up to type E = „gypsum board for planking external wall elements (not for permanent outdoor weathering)“.

Experience has shown that gypsum plasterboards are unsuitable for the full-surface bonding of floor coverings, since the shear strength, inherent strength and stability of gypsum plasterboards are far below those of conventional screeds used in residential areas.

### WHEN INSTALLING FLOORS ON PLASTERBOARDS NOTE:

- ✓ For bonding of floor coverings, it is advisable to request a correspondingly binding recommendation for the planned floor construction from the manufacturer of plasterboards.
- ✓ Since gypsum plasterboards are almost always laid floating, it should be noted that when sticking with swelling pressure-sensitive types of wood (e.g. maple or beech) and/or parquet dimensions (e.g. 10 mm solid parquet or 22 mm strip parquet) there can be a strong top-side tension in the parquet surface, if a high swelling pressure is present ( e.g. due to high humidity), which leads to a bulging (bimetal effect) of the floor construction.

### FLOOR COVERINGS AND PARQUET BONDING ON PLASTERBOARD:

- ✓ Floor coverings (resilient and textile coverings) approved by the gypsum plasterboard manufacturer can be stuck using STAUF floor covering adhesives in combination with STAUF gypsum levelling compounds and STAUF primers.

- ✓ Parquet bonding (multi-layer parquet) approved by the plasterboard manufacturer can be carried out with STAUF reaction resin adhesives in combination with decoupling underlays, polyester fleece or decoupling boards. The use of dispersion-based parquet adhesives is not possible on gypsum-based boards.
- ✓ Adhesion of adhesives and installation materials recommended by us is guaranteed if the substrate is checked and prepared properly. The inherent strength of gypsum plasterboards determines the strength of the subsequent construction.
- ✓ Basically, we recommend a multi-layer construction of the gypsum plasterboards, which are glued to each other over the full surface. In order to increase the stability of the multi-layer construction, there should be at least two layers that run across each other and are at least 20, preferably 30 millimetres thick. The subfloor should be at least twice as thick as the used multi-layer parquet.
- ✓ Ideally, we recommend the full-surface bonding of an additional layer of wooden composite board (chipboard (P4 to P7) or OSB board (OSB/2 to OSB/4)). The subfloor construction should be at least 1.5 times thicker than the used parquet. An additional selective screwing of the construction prevents the panels from shifting during installation. Our reaction resin adhesives are suitable for bonding the additional layer.
- ✓ Unfortunately, there is no generalized adhesive recommendation for sticking floor coverings to plaster boards. Adhesive recommendations may vary depending on the requirement profile, preferences, wishes or specifications of the interested party/planner. If you know the exact type and name of the plasterboard and covering, we will be pleased to advise you.

## TECHNISCHE INFORMATIONEN

### PREFERABLE STAUF INSTALLATION MATERIALS ON PLASTER BOARDS.

✓ Textile coverings:

- Priming = STAUF D54 or STAUF VDP 160
- Levelling = STAUF GS
- Sticking = STAUF D11 or STAUF D8

✓ Resilient coverings:

- Priming = STAUF D54 or STAUF VDP 160
- Levelling = STAUF GS
- Sticking = STAUF D5, STAUF D50 or STAUF D8

✓ Multilayer parquet:

- Decoupling = STAUF decoupling underlay bonded with e.g.
- STAUF Multilayer, STAUF SMP 930 or STAUF SMP 950
- Bonding = STAUF Multilayer, STAUF SMP 930  
or STAUF SMP 950

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. 092022