



Betong-for -bjalklag-C

Finding it hard to choose the right concrete grade for a storey slab? Here you can find out more about the factors affecting your choice.

With our products you can make your in-situ casting of the building shell more efficient and rational. The following points will guide you in the choice of concrete grade for your storey slabs. You can always get in touch with the Technical Customer Service if you are unsure or have questions.

Strength class

The strength class denotes the concrete's ability to carry loads in various situations (e.g. C28/35). The strength class required for the storey slab should always be specified in the building documents.

Consistency and pourability

Slump or slump flow is a measure of consistency and how the concrete behaves during pouring. The higher the value, the looser the consistency. The normal consistency for storey slab concrete is in the range 160–210 mm (slump class S4) or 550–750 mm in case of self-compacting concrete (slump flow class SF1-SF2).

Drying cracks

When water evaporates too quickly, drying cracks can occur. You can prevent drying cracks by protecting the newly cast surface from evaporation directly after laying. This is particularly important in case of dry and windy conditions.

Concrete trowelling time

The time when a floor is sufficiently hard for finishing.

One means of controlling the trowelling time is by your choice of concrete. If you want to be sure you can start trowelling on time, select GlättBI, which has been specially designed for this purpose.

Drying time and humidity content

Do you need a short drying time for your concrete? In that case we recommend you look more closely at our products TorkBI 1–5. You simply calculate the exact drying time for these products with our free calculation tool BI Dry.

Formwork removal

There are several solutions for helping you to achieve the formwork or shoring removal requirement within the desired time. For instance, you can select concrete with a higher strength class and higher temperature. With our wireless measurement system, BI Distant, you can measure strength development directly in the structure and verify that the correct strength level has been achieved on time.

Available in self-compacting version

Many of our concrete products are also available in self-compacting form, SKB. The number of work stages is reduced and the result will normally be on a level with or better than ordinary concrete. Self-compacting concrete requires no external vibration to compact the concrete so as to fill out the formwork.