

# Concrete for walls

**Finding it hard to choose the right concrete grade for a wall?  
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 walls. 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 wall should always be specified in the building documents.

## **Consistency and pourability**

The slump, or slump flow in case of self-compacting concrete, is a measure of consistency and how the concrete behaves during pouring. The higher the value, the looser the consistency. Normally for walls, the slump is approx. 100 – 210 mm (S3 – S4) and the slump flow approx. 600 – 700 mm (SF1 – SF2). Thin, high or heavily reinforced walls require slump >160 mm or self-compacting concrete.

## **Aggregate size**

- The maximum aggregate size for walls is normally 16 mm.

## **Surface quality and surface voids**

Factors affecting surface quality include e.g. concrete quality, climate, formwork surface and the quantity and type of formwork oil used. Will you be casting a wall or column with particularly high requirements for the finished surface? Take a closer look at our product VäggbI.

## **Formwork removal and early frosts**

There are several measures that you can take to ensure that the formwork removal requirement will be reached within the desired time period and to eliminate the risk of early freezing. For instance, you can choose concrete with a higher strength class, hot concrete and/or concrete with accelerator. 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 in the desired 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 so as to fill out the formwork and cover the reinforcement. The high workability gives smooth surfaces, ensures quick work and contributes to a good, quiet and vibration-free working environment.