

## Advantages

In practice, several specialist institutes and building material manufacturers have already carried out comparative tests between the known test method, which includes the Austrian concrete filter press, and the BAUER Concrete Filter Press in order to establish a correlation between the two test methods. The advantage of the BAUER Concrete Filter Press lies in the much easier handling and the shorter test time.



BAUER Concrete Filter Press in the transport case

## Standard

The test with the BAUER Concrete Filter Press is already applied in practice. For example, the EF-FC's "Guide to Tremie Concrete for Deep Foundations" and the Australian "Tremie Concrete for Deep Foundations" manual provide a standard test for investigating the water retention ability.

## Your contact



**BAUER Spezialtiefbau GmbH**  
Technical Service Department

**Karsten Beckhaus**  
Phone: +49 8252 97-1174  
Karsten.Beckhaus@bauer.de

**Andreas Simson**  
Phone: +49 8252 97-1387  
Andreas.Simson@bauer.de



**BAUER Spezialtiefbau GmbH**  
BAUER-Strasse 1  
86529 Schrobenhausen  
Germany  
Phone: +49 8252 97-0  
[www.bauer.de](http://www.bauer.de)



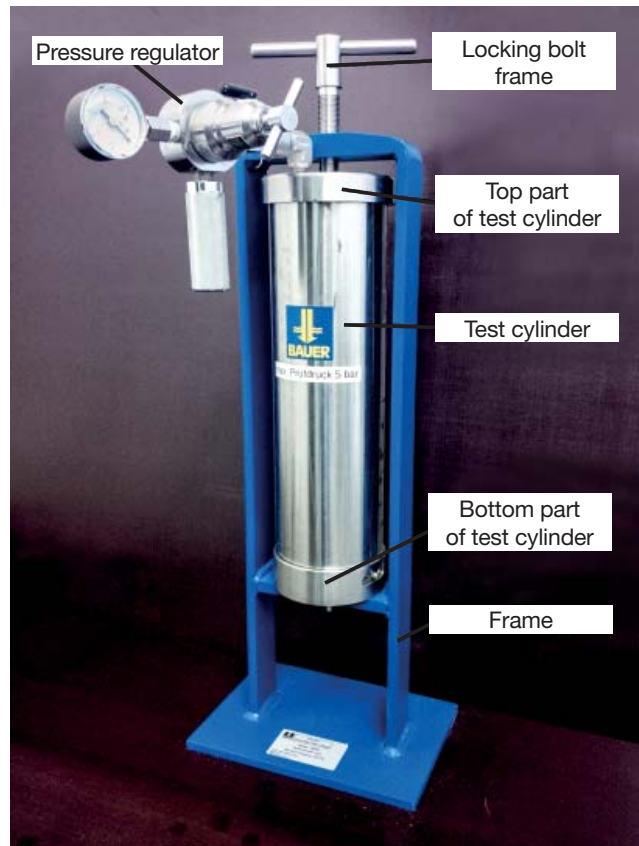
## BAUER Concrete Filter Press

Range of Application:

- Determining the water retention ability of fresh concrete under pressure

## Description

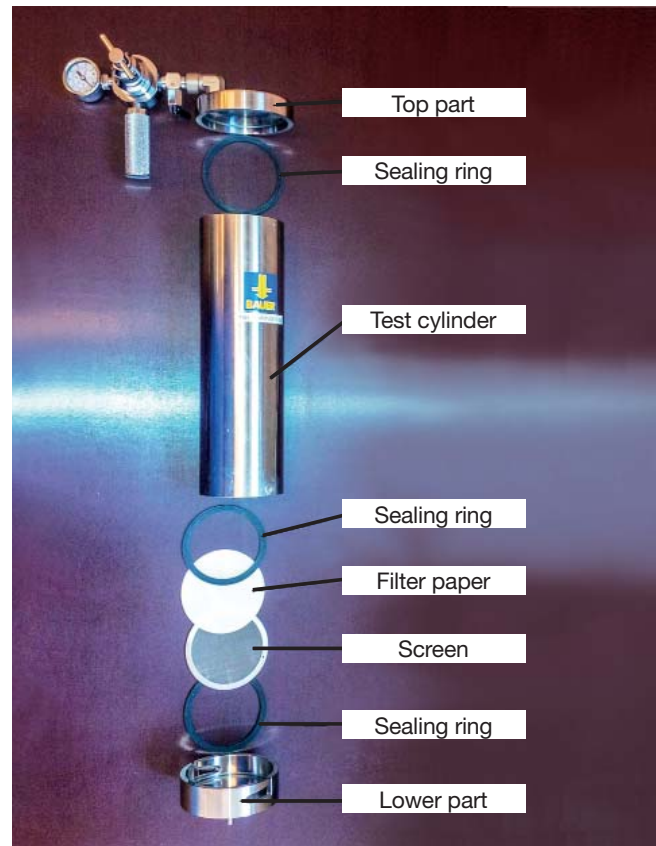
The **Technical Service** Department of BAUER Spezialtiefbau GmbH has been successfully using the **BAUER Concrete Filter Press** as a testing device for determining the water retention ability of fresh concrete under pressure for around 10 years. The test method was developed on the basis of the tests according to API (American Petroleum Institute) for the determination of the filtration water of stabilizing slurries (e. g. bentonite suspensions).



Setup BAUER Concrete Filter Press

## Measuring principle

The applied pressure for carrying out the test with the BAUER Concrete Filter Press was set to 5 bar, which is kept constant over a period of 5 minutes. Depending on the requirements and experience, it may be necessary to screen the coarse-grained concrete to be examined to a maximum of 8 mm. According to internal experience, this screening can usually be dispensed with up to a maximum diameter of 20 mm.



Individual components

## Measured data

Due to the numerous experiences with the BAUER concrete filter press and in particular the international application, a matrix has now been created which reflects the following guide values for the fresh concrete stability of the special deep-casting concrete:

### Filtration water

- High requirements  $\leq 22$  ml
- Medium requirements  $\leq 40$  ml
- Low requirements  $\leq 60$  ml

### Filter cake

The filter cake produced in the test provides additional information on the suitability of the fresh concrete. A low filter cake height and a soft filter cake is advantageous.



Test setup