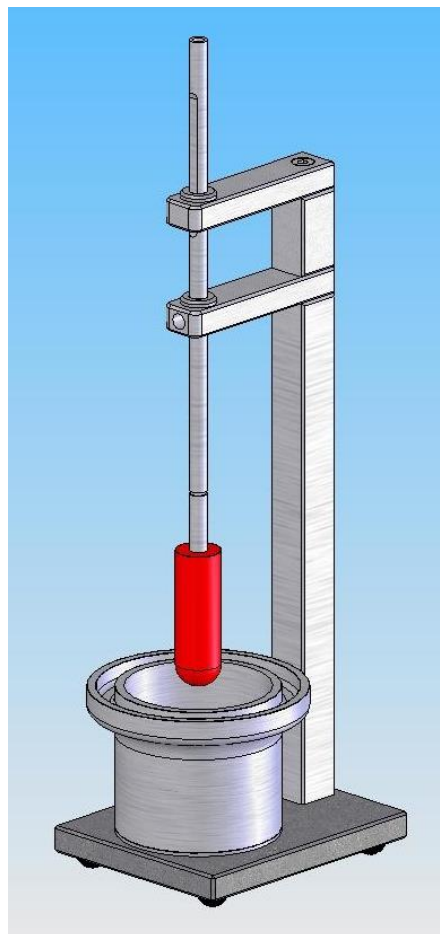


# Instruction Manual

Consistometer for Plasters  
for Masonry Cement  
EN 413, EN 459, EN 1015-4  
DIN 4211



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## **1. Test procedure**

### **1.1 Principle of the procedure**

The penetration mass is determined from the measurement of a defined penetration rod with a falling object into a defined fresh mortar sample in free fall from a predefined height.

### **1.2. Test specifications**

EN 413-2	Masonry Cement, Part 2: 2005	
EN 459-2	Building Lime, Part 2: 2002	
EN 1015-4	Methods of Test for Mortar for Masonry,	Part 4: 1998
DIN 4211	Masonry Cement 1990	

### **1.3 Guarantee**

Our **General Terms of Sales and Delivery** apply in all cases.

The Manufacturer guarantees that this Operating Manual has been prepared in conformity with the technical and functional parameters of the device as delivered. The Manufacturer reserves the right to add supplementary information to this Operating Manual as required.

The guarantee provided by the Manufacturer is the legal guarantee. This guarantee does not cover wear-and-tear parts.

The Manufacturer guarantees trouble-free operation only if the User observes the instructions in this Operating Manual, and only if the User employs the device for the purpose for which it is intended.

The Manufacturer shall not be liable for damages that may occur if the device is used for purposes for which it is not intended, or if the User does not observe the instructions and rules for operation as set forth in this Operating Manual.

No claims for damages may be lodged against the Manufacturer if the device is modified in its structural or constructional characteristics without the prior written consent of the Manufacturer, or if its functional characteristics are modified without such consent.

#### **1.4 Receiving the system from the forwarding agent**

When the system arrives from the forwarding agent, make an external inspection. If there are no visible damages or other shortcomings, accept the consignment from the freight forwarder (the package service or a haulage agent).

If there are no transport damages or other shortcomings, use the bill of delivery to check to make sure that the delivery is complete.

If you believe that transport damage may have taken place when you receive the equipment, or if you discover after you have accepted the delivery that damage has occurred, immediately make a report of this damage, with an exact description of the nature and the extent of the damage. Send this report to us immediately by fax. Important: Be sure not to make any changes or other alterations to the system as it has been delivered.

When we receive this report, we shall decide whether we can solve the difficulty by one of the following steps:

- Delivery to you of spare parts
- Sending a specialist fitter or mechanic to your company
- Asking for return of the system to us for replacement or repair.

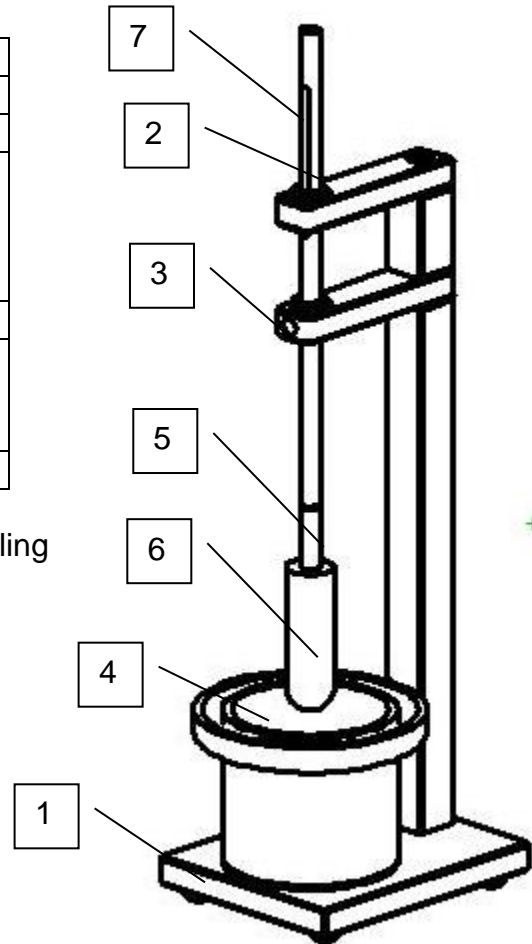
## 2. Description of the device

1	Base with baseplate
2	Guide bushes
3	Spring-loaded fixing device
4	Cylindrical vessel, inner diameter 80 ±1 mm height 70 ±1 mm Concentric bearing arrangement
5	Penetration rod
6	Plastic hemispherical falling object, diameter 25 ±0.5 mm Length 77 ±1 mm
7	Scale

The total mass of the penetration rod and the falling object is 90 ±2 g.  
The height of free fall is 100 ±1 mm.

### Auxiliary material

Rammer  
Trowel  
Skimming blade



## 3. Procedure

- Test the ready-to-use mortar within the specified workability time.
- Bring the penetration rod [5] with the help of the fixing device [3] to its initial position, so that the height of free fall is 100 mm.
- Clean the falling object [6] before use.
- Fill the vessel (4) in two positions with mortar. Compress each position with 10 short impacts, using the rammer.
- Remove excess mortar with the skimming blade, so that the surface is level and flush with the height of the upper edge of the vessel.
- Place the vessel onto the baseplate and loosen the fixing device [3], so that the falling object [6] can free fall from its initial position.
- Measure the depth of penetration on the scale to an accuracy of 1 mm.

## **4. After-sales service and spare parts**

A great deal of care has been taken to ensure that this Operational Manual is correct. We cannot, however, guarantee that it is without mistakes or errors, or that all information contained herein will continue to remain valid in the event of technical changes.

### **4.1 Date of issue of this Operational Manual**

Edition no. 4  
Date of issue: Jan of 2005

### **4.2 Copyright**

The copyright to this Operational Manual remains with the company

**TESTING** Bluhm & Feuerherdt GmbH.

This Operational Manual is intended only for the Operator, the User, and his staff. The information in this Operational Manual may not be:

- Reproduced, or
- Distributed, or
- Provided to any other persons.

Any person acting in violation of the above stipulations may be prosecuted before a court of law.

### **4.3 Contact for help and spare parts**

If you have any technical questions, or if you require spare parts, please get directly in touch with the following address:

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