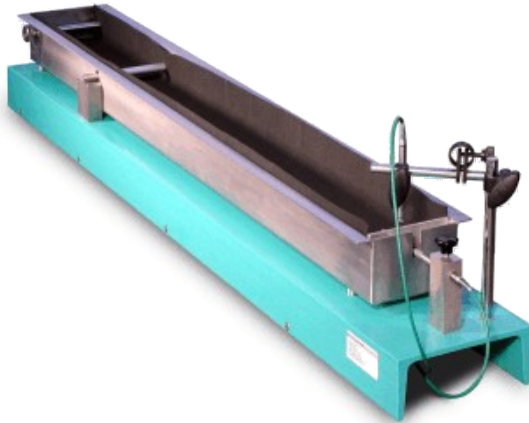
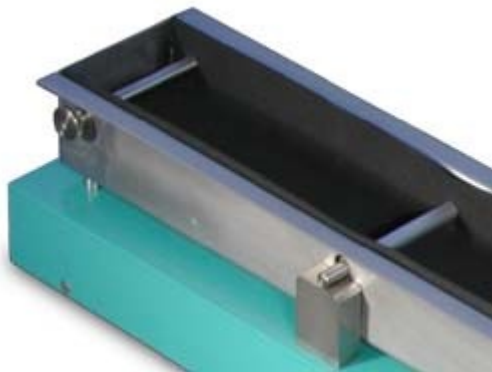


## The Schleibinger Bending Drain



With the Schleibinger Bending Drain you measure the shrinkage and bending of building materials. Also you may simulate with a built in electrical heating a real world floor heating.



High precision measurement are guaranteed, by two static abutments and a massive u-shaped steel baseplate. A neoprene foil between the form work and the material avoids friction and blocking of material, also when expanding materials are used. The form work is static independent from the mortar beam which is supported by two well defined points.

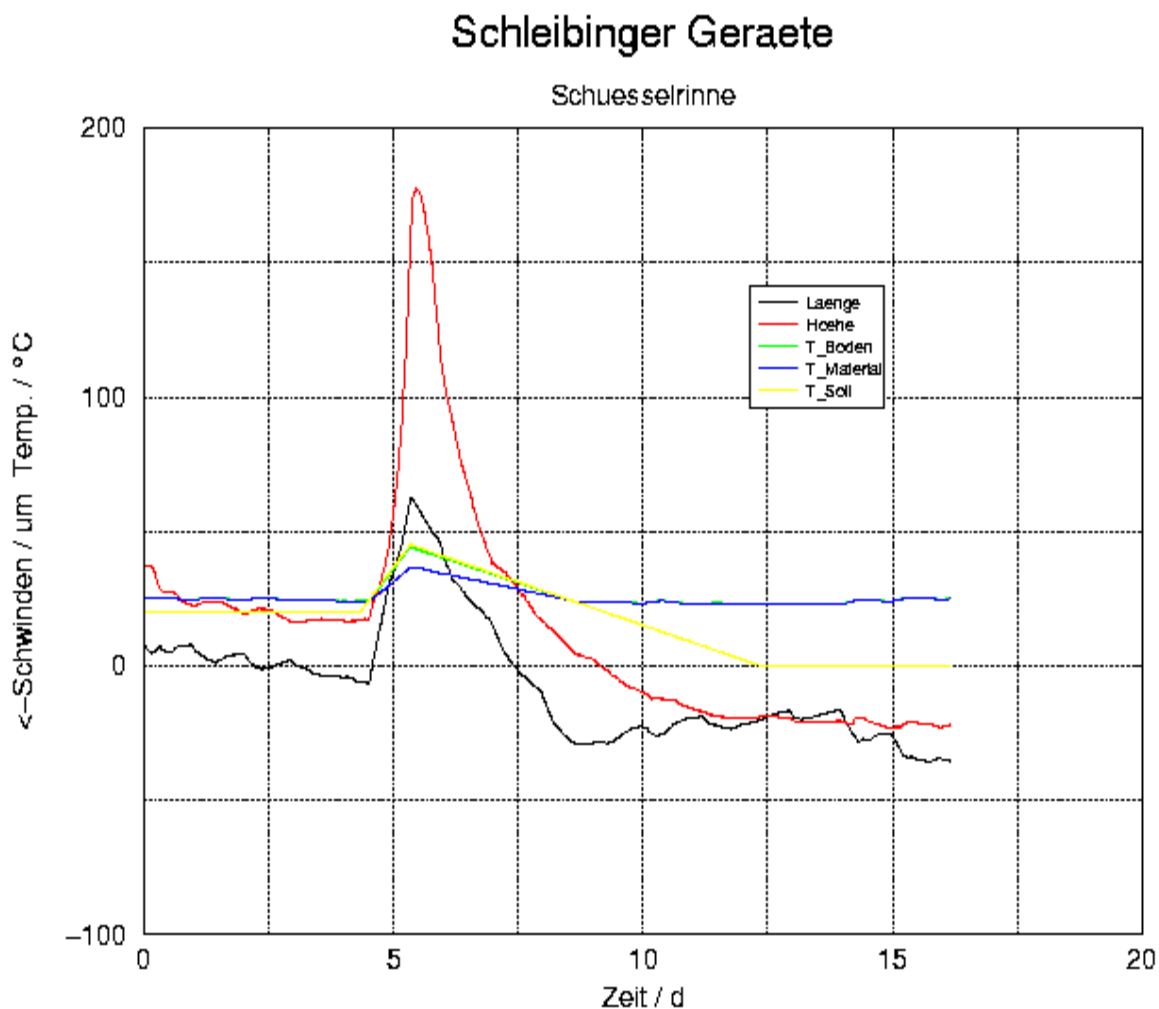
The Bending Drain has an Intra- / Internet connection and an integrated data logger. No special PC is required during the measurement. The instrument is fully controlled by your network browser software, like the Internet Explorer or similar software. All data are stored inside on non volatile memory for weeks or months. By one mouse click you can load the data directly into your Excel worksheet over a network. You may also transfer you data with a removable Compact Flash card.

You may integrate several Bending Drains into your network, but each of it is working independently. Two high resolution LVDTs with a stroke of 5mm and a resolution of  $0.3\mu\text{m}$  are delivering high reliable results.

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Two RTDs are measuring the temperature on the bottom of the form work as well in the air or in the specimen. An additionally moisture/temperature sensor may be connected. For the floor heating you can program a temperature profile over time. For example rising the temperature after 6 days from 20°C to 60°C holding it for 3 days, and coming down to 20°C again.

Patent applied.



Above you see a typical data plot. The x-Axis shows the time in days, the y-axis temperature in °C and length change in microns. After 4 and half day the floor heating was activated. The green line shows the temperature at the bottom of the specimen, the blue line is the temperature in the core of the specimen. The red line shows the

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bending, the black one the length change. The measurement was made at the Hasit Laboratory ([www.hasit.de](http://www.hasit.de))

## Technical Data

Stroke Range	5 mm
Specimen length	1000 mm
Resolution	0,3 $\mu\text{m}$
Accuracy	$\pm 4 \mu\text{m}$
max. Temperature	70 °C
Data interface	Ethernet 100 Base T
Protokoll	HTTP ,FTP u. Telnet
Heating	120 W @ 20 °C
Weight	36 kg

Item. S 0018

Ask for a quote

## Contact Info:

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or ask your local dealer