



AUTOGENOUS SHRINKAGE AND CREEP FRAMES

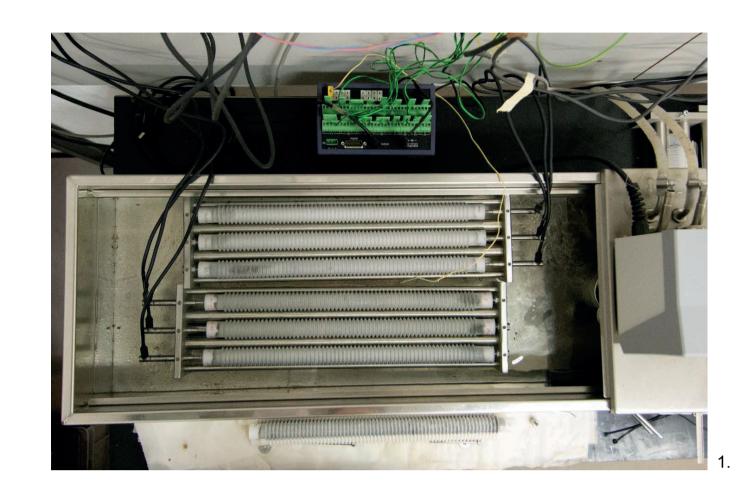
Julien STON – MXH 919 and MXH 942.1

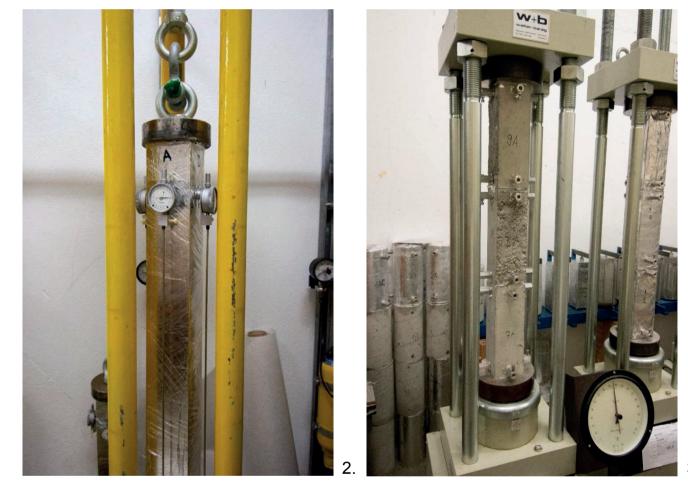
What are they used for?

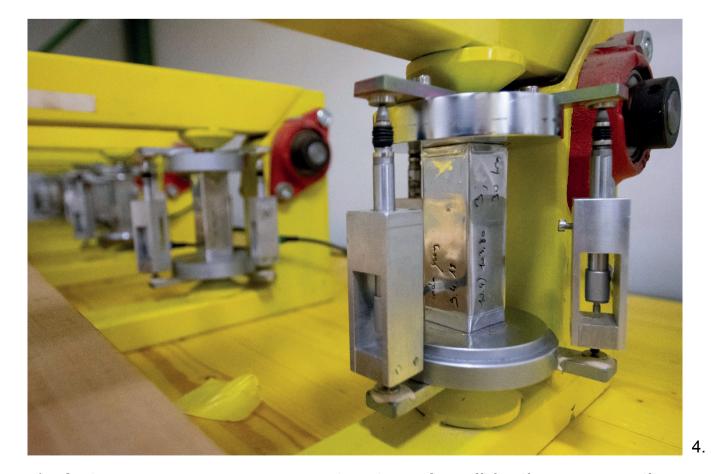
- ☐ Measure autogenous shrinkage on paste using the corrugated tubes method (ASTM C1698-09)
- ☐ Obtain the compressive or tensile creep strain on paste or concrete specimens

Applications

- ☐ Study of the viscoelastic properties and their kinetics
- ☐ Inputs for modelling
- ☐ Suited to long-term studies
- ☐ Complemented by relative humidity monitoring and follow-up of the degree of hydration







- 1. Autogenous measurement setup. An oil bath ensures the system remains at 20°C.
- 2. Tensile creep frame for concrete sample
- 3. Compressive creep frame for concrete samples. Can also be used with automated monitoring
- 4. Compressive creep frames for cement paste samples. Three LVDTs around each sample monitor its length automatically.

Typical results

