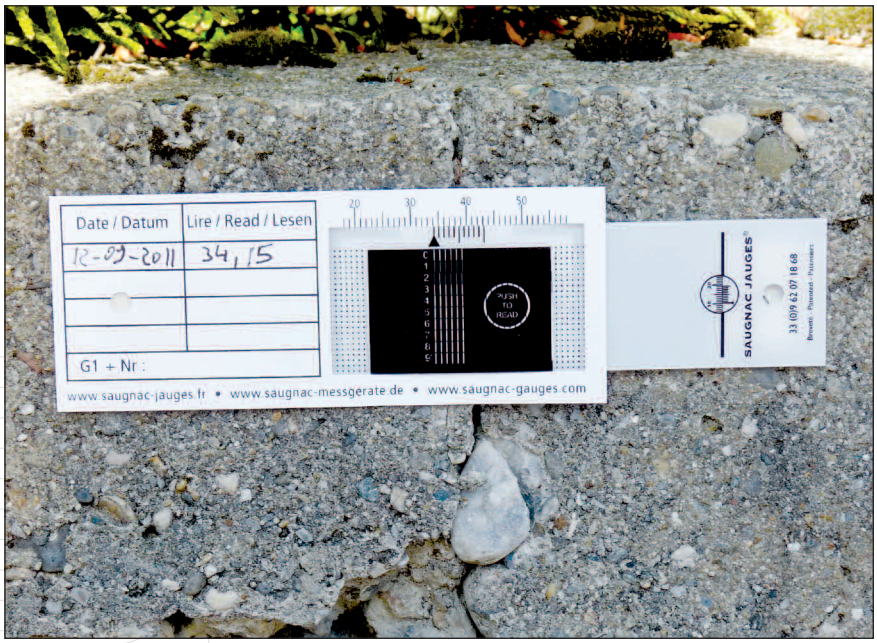
○ G1+ GAUGE

G1+ gauge with 1/20 mm precision

The G1+ gauge, like the other G1 family gauges, is suitable for monitoring parallel lip cracks progressing along a single axis.

It is white, the body of the gauge is made from extruded PVC and the pull tab is made from Lexan.

- Tensile strength of circa 25 g
- Plate thickness = 0.7 mm
- Pull tab thickness = 0.5 mm



It is weather-resistant

The device is fixed by means of double-sided adhesive tape.
G1+ gauges also have two 4mm diameter drill holes for mechanical fixing, using impact anchors, onto difficult substrates on which the use of adhesive tape or glue is inappropriate.

The major innovation provided by the G1+ gauge resides in its "digital" readout of tenths of mm: indeed, each 1/10 mm movement of the pull tab causes the concomitant obstruction of a row of 6 white lights placed on this same tab. Each row is assigned to a digit (0 to 9) corresponding to the tenths of mm.

The G1+ gauge is manufactured in France

The tools, measurements, expertise, and service

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Reading examples

G1+ gauge reading on 12/09/2011

The ▲ mark on the vernier is located between 34 and 35

a) Reading the mm
The number of mm corresponds to the graduation to the left of the ▲ mark on the vernier:

34 in the example shown

b) Reading the decimal
Identify the obstructed row(s).
In this example, rows 1 and 2 are obstructed, meaning that the ▲ mark on the vernier is mid-way between the first and second tenth.

The reading is thus neither 34.10 mm, nor 34.20 mm but 34.15 mm

Reading of the same G1+ gauge on 14/12/2011

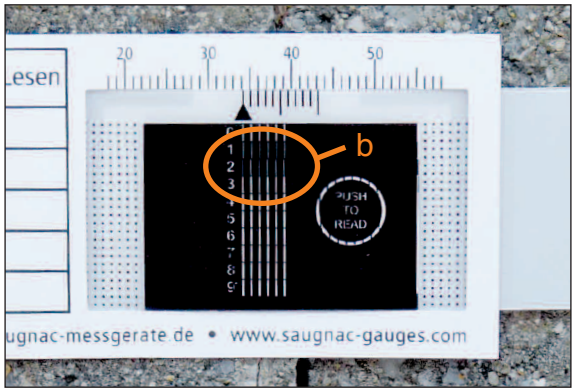
The ▲ mark on the vernier is located between 34 and 35

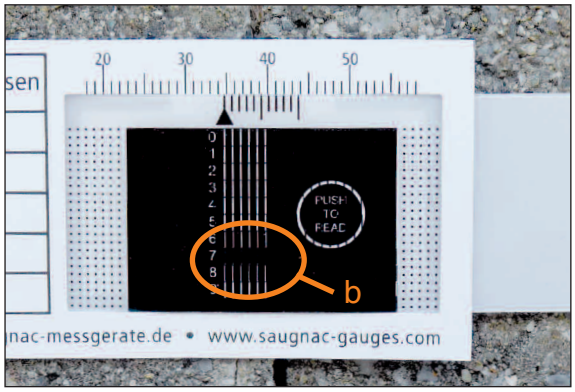
a) Reading the mm
The number of mm corresponds to the graduation to the left of the ▲ mark on the vernier:

34 in the example shown

b) Reading the decimal
Identify the obstructed row(s) (black rows).
In this example, only row 7 is black, meaning that the ▲ mark on the vernier is positioned exactly on the seventh tenth.

The reading is thus 34.70 mm





By subtracting the first from the second reading, we can infer that the crack has grown by 0.55 mm in a little more than 3 months.

The vernier, located on the top of the pull tab, will confirm these results if necessary (for instructions on reading the vernier, see the G1 gauge product sheet), though it will be necessary to use a thread counter to read the result of 34.15.

Besides its 1/20 mm precision, combined with its ease and comfort of reading, the G1+ gauge also means:

- the ability to measure movements with an amplitude of up to 30mm
- no need to zero the instrument upon fixing: it is not necessary to align the ▲ on the vernier with a measurement scale graduation, an operation frequently difficult to perform with any degree of precision. Simply fix the gauge and read the result displayed
- a sufficiently flexible material to adapt to and follow the movement of irregular, convex or concave surfaces