

OPERATING INSTRUCTIONS

Testing Anvil

35-1530

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1 General

The testing anvil is used to check and calibrate concrete test hammers. It is manufactured in a special steel alloy.

1.1 Dimensions

Diameter : 150 x 320 mm

Weight : 16 kg

2 Procedures and Use

Procedures and use of the test anvil C390 according to EN 12504-2.

2.1 Preparation

When using the test hammer, follow the operating instructions. To ensure the instrument is working correctly, operate the test hammer at least three times before taking any readings.

Before proceeding with a series of tests on a concrete surface, execute the test and take readings on the reference steel anvil and check whether it falls within the tolerances recommended by ELE International.

Tests should be carried out at a temperature between 10°C and 35°C.

2.2 Procedure

Set the test hammer in position so that the piston will have a perpendicular impact on the tested surface. Gradually increase pressure on the piston until impact of the hammer. Following impact, read the value on the scale. Use series of at least 9 readings to obtain a more reliable rebound index of the tested area. For each reading taken record position and trend of the test hammer. Make sure that the distance between two impact points is not lower than 25mm and that no reading is taken at less than 25mm from a border.

Examine the marks left on the surface after impact, and if any impact has broken or perforated the surface due to a void underneath, discard the reading.

2.3 Reference verification

After the test, take readings using the steel anvil, record and compare them with those taken before the test. If the result is different, check or calibrate the test hammer and repeat the process.