

T2-90, T2-115, T2-116, T2-117, T2-118, T2-119, T2-120

VERTICAL HAMMER, STRIKING ELEMENTS

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TECHNICAL SPECIFICATIONS

Guiding device:

Maximum fall height 400 mm, adjustable

Fall height scale:

Stainless steel, 500 mm, adjustable height, mounted by magnets

Striking elements*:

Polyamide: $85 < HRR < 100$, Rockwell hardness according to ISO 2039-2.

T2-115 STRIKING ELEMENT WITH GUIDING DEVICE FOR 1 J

Steel: Fe 490-2, ISO 1052: Rockwell hardness: HRE 80...85 according to ISO 6508

T2-116 STRIKING ELEMENT WITH GUIDING DEVICE FOR 2 J

T2-117 STRIKING ELEMENT WITH GUIDING DEVICE FOR 5 J

T2-118 STRIKING ELEMENT WITH GUIDING DEVICE FOR 10 J

T2-119 STRIKING ELEMENT WITH GUIDING DEVICE FOR 20 J

T2-120 STRIKING ELEMENT WITH GUIDING DEVICE FOR 50 J

Fall base:

sheet of polyamide, thickness 8 mm

dimensions 400 x 410 mm

hardness $85 < HRR < 100$, according to ISO 2039-2,

Dimensions

Width 400 mm

Depth 500 mm

Height 760 mm

* Striking elements and their guiding devices shall be ordered separately and are not included in price

INTRODUCTION

T2-90 VERTICAL HAMMER together with STRIKING ELEMENTS is intended for checking the resistance of samples to mechanical impacts.

It is constructed in compliance with the following standards:

IEC 60068-2-75: Environmental testing. Part 2: Tests. Test Eh: Hammer tests
EN 62262
EN 50102

Apparatus consist of:

Polyamide fall base, on top of which is a skeleton that enables mounting of different guiding devices for different guiding striking elements. Guiding devices can be moved vertically in order to achieve requested fall height. On the side of the skeleton, four magnets to which fall height measuring tape should be attached are mounted. Striking elements are equipped with eye screw, through which a rope can be attached to simplify releasing of striking element, if necessary.

DESIGN

Apparatus is free standing; skeleton is made of rectangular anodized aluminum sectional profiles, fall base of 8 mm polyamide, striking elements made of steel and polyamide, guiding devices are made of anodized aluminum and stainless steel.

DESCRIPTION

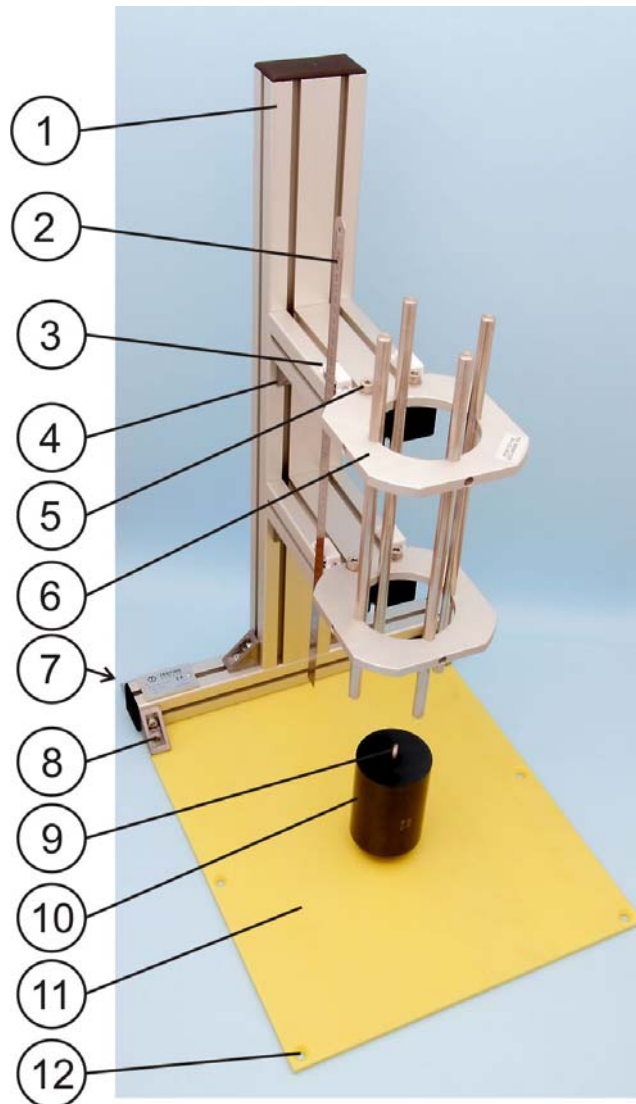


Fig. 1 : Vertical hammer

- 1) VERTICAL COLUMN
- 2) FALL HEIGHT MEASURING TAPE
- 3) FOUR MAGNETS FOR ATTACHING AND ADJUSTING THE HEIGHT OF MEASURING TAPE
- 4) FOUR MOUNTING BLOCKS WITH SCREWS FOR ADJUSTING THE HEIGHT OF GUIDING DEVICE
- 5) FOUR SCREWS FOR MOUNTING THE GUIDING DEVICE
- 6) GUIDING DEVICE
- 7) TWO ALLEN SCERWS WITH SPACERS FOR ATTACHING TO CONCRETE
- 8) TWO ALLEN SCERWS FOR ATTACHING TO CONCRETE
- 9) EYE SCREW OF STRIKING ELEMENT
- 10) STRIKING ELEMENT
- 11) POLYAMIDE FALL BASE
- 12) FOUR FLAT-HEAD ALLEN SCERWS FOR ATTACHING TO CONCRETE

The equipment described here is subject to redesign without notice. The change will not impair the function of apparatus its characteristics or the price.

INSTALLATION

Apparatus T2-90 should be placed and screwed down to the concrete floor as per requests in the standard IEC 60068-2-75 on horizontal surface by 8 screws. Two mounting blocks that are now on top of aluminum horizontal profile, (for fixation of hammer during transportation), should be removed and mounted on the back side of the profile. Screws and ground screw anchorages are enclosed. Back blocks should be screwed by two Allen screws with spacers, the two front blocks by two Allen screws and additional four flat-head Allen screws through the polyamide fall base. One additional mounting block that was added only for transportation purpose shall be removed from the vertical column.

INSTRUCTIONS FOR USE

Fall height measuring tape shall be attached to two magnets (3. fig. 1). According to required impact energy, relevant striking element and its matching guiding device shall be selected and mounted by four screws (5 Fig. 1). The sample shall be positioned under the measuring tape and measuring tape moved down to meet the sample. If necessary (depending on the sample height) also the four height adjustment screws shall be released and the height of guiding device shall be adjusted and then the four screws retightened. The standard requests: "This guideway shall not rest on the specimen and the striking element shall be free of the guideway on striking the specimen." And "Secondary impacts, i.e. rebounds, shall be avoided." This usually means, that the test, esp. with heavier striking elements shall be performed by two persons. One person adjusts the striking element height, and releases it, the other person should catch it after the first strike. We recommend use of heavy leather gloves, esp. for heavier striking elements and samples that are likely to break (perhaps also protective goggles). Striking elements are equipped with eye screw (9), through which a rope can be threaded to enable easier holding and releasing of hammer.

MAINTENANCE

Standard requests that the striking elements shall be made of Fe 490-2 steel. Their external surface is lightly protected (Black Oxydizing), but after use it shall be lightly oiled, to avoid corrosion. Before use it shall be wiped off so that the striking elements are not too slippery and easier to handle/catch.

OTHER CONDITIONS

Warranty: 2 years

Support by E-mail: support@testing.si

On line Skype VIDEO Support: Testing_support, matejsimonic

We will be glad to help you solve your problems and to hear any feedback from you.

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