Water Penetration Tester made of glass (Karsten Test Tube)

packed individually in a box, complete with one roll of white plastic putty (approx. 100 g), with a scale in ml, approx. 20 ml capacity.

horizontal surfaces: (1802) < **21,20 €**
vertical surfaces: (1801) < **21,20 €**

Water Penetration Tester Set (1800 S) <
complete with 1 water penetration tester (1801) and (1802) and one roll of white plastic putty, packed in a pasteboard box for transport. **44,00 €**

Water Penetration Tester Set (1801 S) <
as above, but with 2 water penetration testers (1801) **44,00 €**

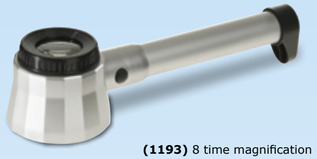
Water Penetration Tester Set (1802 S) <
as above but with 2 water penetration testers (1802) **44,00 €**

Measuring magnifiers

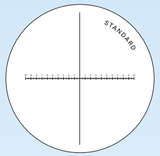
is suited for measuring cracks and joints optimally. The magnifier consists of a magnifying unit and an illuminating unit.

It has an easily read graduated scale in mm (0.1 mm graduation).

The measuring magnifier is supplied packed in a useful case including 2 batteries (1.5 V UM-2).



(1193) 8 time magnification



(1193) < Measuring magnifier with 8 time magnification
Scale 10-0-10 mm **64,00 €**

The measuring magnifiers (1190) and (1192) additionally have an adjustable ring for a precise controlling of the focus. Furthermore, the magnifier can be used separately from the illuminating unit.

(1190) 7 time magnification
(1192) 10 time magnification

(1190) < Measuring magnifier with 7 time magnification
Scale 10-0-10 mm **157,00 €**

(1192) < Measuring magnifier with 10 time magnification
Scale 15-0-15 mm **228,00 €**

Subject to alterations.
Delivery ex warehouse Hamburg. All prices plus VAT.

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Recognition and Estimation of the adhesion of paint coatings

Examination Set for old and new coatings on concrete (1290) <

The examination set (1290) helps you to recognise the used basis of a coating and to estimate its adhesion.

To determine the structure of the coating, first make the pad-check. At this you drip dilution C on a pad and put it onto the coating. After a short period of time you can take conclusions, on the basis of the residues on the wadpad, about the structure of the coating.

In the second step, the adhesion of the coating is estimated according to DIN EN ISO 2409 by the grid-cutting method. For this you cut the surface through the grid-cutting-ruler each 4 mm crosswise. The residual structure of the coating will be compared to a list of grid-cutting-parameters, so you can come to conclusions about the adhesion of the coating.

Both tests serve as assistance for measures for surface preparation and finally for deciding on the media for further processing.

Examination Set for old and new coatings packed in a plastic box (1290) <

Complete with wadpads and dilution C, grid-cutting-ruler, knife, scotch tape, brush and ball point pen for documentation. We also deliver a handbook, using instructions and drawing-form for documentation of the results.

198,00 €

Grid-cutting ruler (1291) <
(German patent)

single, made of stainless steel.

For determination of the adhesion of coatings according to DIN EN ISO 2409

59,00 €

Prices valid from 01.10.2019

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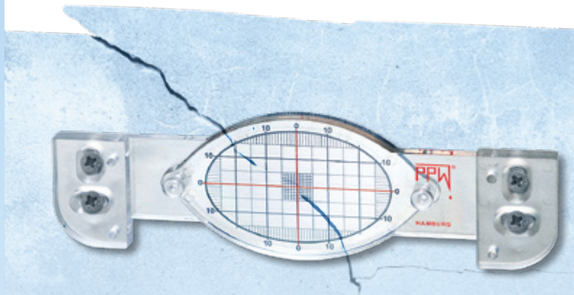
Building Examination Equipment

Measuring and monitoring cracks



Crack monitor (1395) <
for permanent monitoring of crack movements

consists of 2 plates of transparent impact-proof acrylic plastic. The bottom plate has a scale, which is calibrated in millimetres and the overlapping plate is marked with a red graticule.

The crack monitor will be fixed with the enclosed screws or adhesive across the crack on the wall. As the crack opens or closes, the plate with the red graticule moves proportional to the other plate with the scale.

These movements can be read at the calibration scale and recorded on a foil of the enclosed record folder (1395F), the accuracy being 0.5 mm.

We deliver the crack monitor (1395) packed in a pastecard box, complete with fastening screws, plugs and crack monitoring record folder with 10 foils

52,50 €

Crack monitoring record folder (1395F) <

with 10 loose foils for recording the crack movements with the crack-monitor (1395)

10,60 €

Prices valid from 01.10.2019

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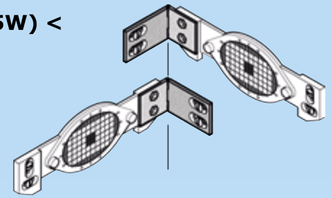
Angle adapter for crack monitoring (1395W) <

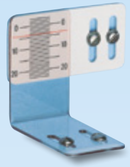
For monitoring cracks in external or internal corners the angle adapter (1395W) is fitted to the crack monitor (1395) with screws and nuts. Then the cracks can be observed like described for the crack monitor (1395).

If three dimensional movements are possible, e.g. in internal corners, 2 opposing crack monitors + angle adapter are employable.



Angle adapter for crack monitoring (1395W) <

complete with screws + nuts, fastening-screws and plugs **22,00 €**



Floor-crack monitor (1197) <

is used to monitor subsidences of floors and walls.

Floor-crack monitor (1197) will be supplied with 4 fastening-screws + plugs + record booklet with 10 leaflets of pergament paper. **45,00 €**

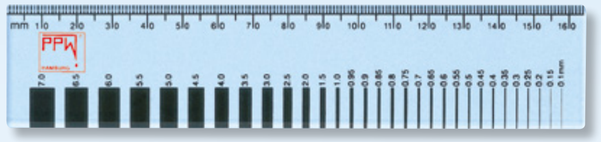
Record booklet for crack monitoring on floors (1197P) <

including 10 record leaflets of pergament **9,00 €**

Crack width gauge (1191) <

made of acrylic, supplied in a case, with 2 scales:

1. Unit of measurement is indicated for cracks from 0.1 to 7.0 mm.
2. Being calibrated to the edge of the scale simplifies crack measurement in corners. **24,50 €**



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Testing the absorption of liquids by building materials

PLEYER'S Test Tube

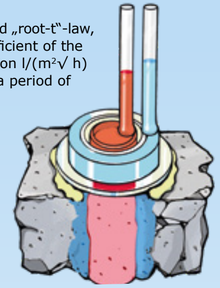
German patent

For non-destructive analysis of the driving rain tightness of facades respectively for testing the absorption of building materials the Karsten Test Tube has been used so far. The *PLEYER'S* Test Tube bases upon the Karsten Test Tube, but more detailed and surface parallel penetration processes can be ascertained.

The outer arranged liquids chamber (see blue part of the drawing), which surroundes the building material surface (see red part of the drawing), which should be tested proper, will be filled up immediately before the inner circular area with the test liquid. Thereby the test liquid cannot flow sideways, now the absorption of the building material can be ascertained more exactly in relation to the inner circular area.

Apart from this, the graduation (ltr./m²) applied to the inner gauge pipe provides a direct indication of the water absorption coefficient of the building material (s. DIN 52 617).

When applying the so-called „root-t"-law, the water absorption coefficient of the building material (dimension l/(m²√ h) may be determined after a period of only 15 minutes. For this pupose, the reading of the amount of water having penetrated into the building material is to be multiplied by a factor of 2.



Furthermore the *PLEYER'S* Test Tube may also be used for quality assurance purposes of impregnation processes (water repellent finishing). In this case, for instance, the water repellent finishing is applied as the test liquid. The degree of absorption of the subsurface may be estimated and, by referring to the functional correlation of the absorbed amount/penetration depth, may be more easily assessed.

***PLEYER'S* Test Tubes are supplied in various sizes:**

Please notice that you have to choose a test tube which inner circle surface is at least 3 times greater than the graine diameter of your building material!

For plaster, mortar, masonry mortar, bricks, sand-lime brick, porous concrete, natural stone and flooring plaster
(max. graine diameter 8 mm):

Vertical surfaces dia. 30 mm:	**(PP 30S)**	**230,00 €**
Horizontal surfaces dia. 30 mm:	**(PP 30W)**	**190,00 €**

For flooring plaster and concrete
(max. graine diameter 16 mm):

Vertical surfaces dia. 50 mm:	**(PP 50S)**	**290,00 €**
Horizontal surfaces dia. 50 mm:	**(PP 50W)**	**280,00 €**

The test tubes are supplied separately, packed in a carton made from foamed material. This carton also holds a separate folding box containing 6 putty strips for securing purposes.

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To ensure safe transportation of the *PLEYER'S* Test Tubes the scope of deliveries comprises the following:

Aluminium-framed **wooden case** 38 x 45 cm, 22 cm high. The wooden case is fitted with compartments of foamed material accepting test tubes of any size.

The wooden case also contains three capped PE-bottles **(PP-S1)** for the test liquid.

Supplied together with the PE-bottles is a twin spraying hose **(PP-S2)** provided with a screw cap facilitating the filling operation.

The case furthermore contains a fold-away instruction manual detailing the test procedure when using the *PLEYER'S* Test Tubes. Also supplied is a flat brush for preparing the surfaces to be tested and a knife and spatula for removing the *PLEYER'S* Test Tubes secured to the masonry.

Wooden case (PP KF)

with accessories, but **without** test tubes **450,00 €**

Supplementary parts

(PP-K) Putty tape
6 strips, 25 cm long,
(sufficient for securing a test tube twice) **5,20 €**

(PP-S) Test bottle
Capacity 500 ml, provided
with twin spraying hose and cap **18,60 €**

(PP-S1) Test bottle
with closed cap
without spraying hose **6,20 €**

POLYPLAN WERKZEUGE

In addition to this program for building-examination-equipment we also deliver:

Tools for liquid plastic coating and glas-fibre reinforced processing

Tools for reconstruction of buildings and injection

Please ask for our current catalogues on www.polyplan.com

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