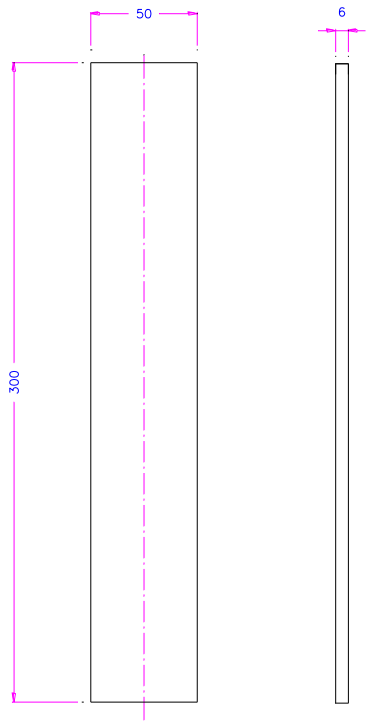


# TH49

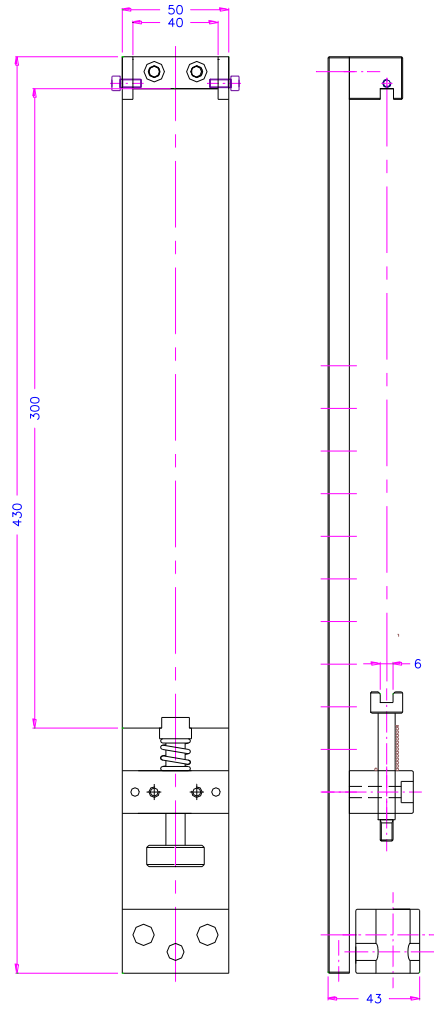
180° Peel Test for Finat FTM1 and FTM3

TH49-P-ST	Puller for adhesive foil 180°, 10kN with steel platen
TH49-ESP	1x additional steelplaten 300x50x5 mm
TH49-P-GL	Puller for adhesive foil 180° with glass platen
TH49-EGP	1x additional glasplaten 300x50x5 mm





TH49-P-Gl    glas  
 TH49-P-St    steel



TH49



TH49-B300-M4 special

### FTM 1 - Peel adhesion (180°) at 300mm per minute

This test method quantifies the permanence of adhesion or peelability of self-adhesive pressure sensitive materials. Peel adhesion is the force required to remove pressure sensitive coated material, which has been applied to a standard test plate under specified conditions from the plate at a specified angle and speed.



**180 Degree**  
**300 mm/min**

Test strips should be 25 mm wide and have a minimum length of 175 mm in the machine direction.

Remove the backing material from each strip and place the adhesive coated facing material, adhesive side down, on to a clean test plate using light finger pressure and follow sample preparation procedures.

Fix the test plate and strip in the machine so that the angle of peel is 180°. Set the machine at 300mm per minute jaw separation rate. Set the machine load averaging function so that it averages data – taking more than five readings at 10mm intervals from the centre section of each test strip and averaging them.

Peel adhesion (180°) is the average result for the strips tested in Newtons per 25mm width. All 100 Series Testers can set the data to be displayed in Force/width.

#### Testing Product Solutions:

The 100P (and 100Q, 100R) will perform this test - peeling a laminate through an angle of 180° with a jaw separation rate of 300mm per minute controlled to better than ± 0.1%. Test data is captured and stored with "average Load" firmware, which is required.

Manual grips are available with rubber faces to attach to required test plates made of float glass. A standard FINAT test roller is also available.

### FTM 3 - Low speed release force



**180 Degree**  
**300 mm/min**

FTM 3 is used to determine the force required to separate the release backing from the pressure sensitive adhesive coated face material. It may be used in the preliminary evaluation of the conversion aspects of the laminate - very low values may create label fly during conversion or application - high values may produce web break when skeleton stripping die cut labels or dispensing failure during automatic application.

Low speed release force is the force required to separate a pressure sensitive adhesive coated material from its backing or protective sheet (or vice versa) at an angle of 180° and a jaw separation rate of 300mm per minute.

Procedure -- Fix each strip by double sided tape (cover the full test area of the sample), so the laminate can be peeled apart at an angle of 180°. The facing material may be peeled from the release substrate, or vice versa, depending on how the sample is applied to the plate. Set the machine load averaging function so that it averages data.. Low speed release force is expressed at the average result for the strips tested in centiNewton per 50mm width.

#### Testing Product Solutions:

Any model 100 tester will perform this test with the correct fixtures. The G227 Grips can be outfitted with a back plate to which the test strip can be attached in order to maintain an angle of peel of 180°.

The strips should be 50mm wide and have a minimum length of 175mm in the machine direction.