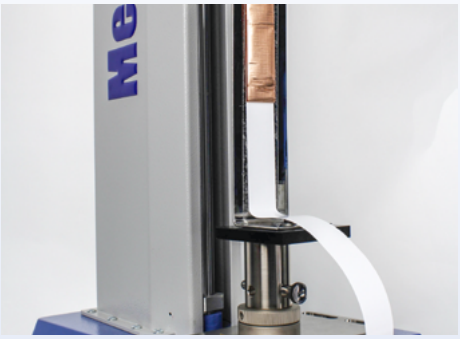
Mecmesin

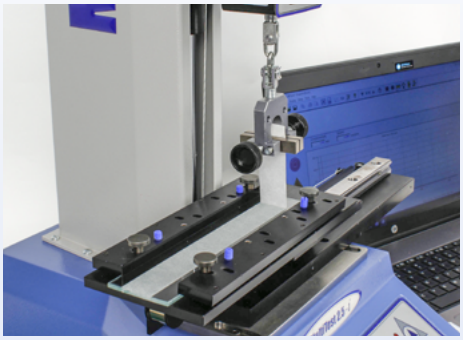
testing to perfection

Peel Jigs for test standards (FINAT, ASTM, AFERA, PSTC)

A number of test methods and standards employed by various industry bodies call upon specific peel jigs and associated accessories to be used in conjunction with a tensile tester. Mecmesin has developed a range of peel jigs and accessories to meet the demands of the most commonly used standards.

Part No.	Description	QC connection
PDV13016-C	180 degree Peel Jig - lower (FINAT 1 & FINAT 3)	Yes - QC 20
PDV15031	90 degree Assisted Peel Table incl. rails for fixing Float Glass - lower (FINAT 2)	Yes - QC 20
PSV15030	Float Glass 2" wide x 8" long for use with above Assisted Peel Table	N / A
PSV14155	Standard FINAT Roller - 2kg	N / A
PSV13007	Sample cutter (15 mm and 1 inch wide) + Protective Mat	N / A
PDV13016-A	Tack Test Jig - lower (FINAT 9)	Yes - QC 20

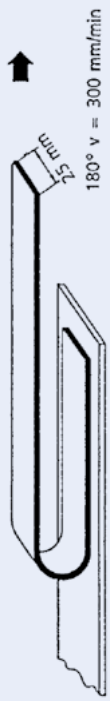




180 degree Peel Jig (FINAT 1) – Peel Adhesion

- Remove backing material from 25 mm wide strip
- Affix to test plate (PDV13016-C) and roll twice using standard roller (PSV14155)
- Fit test plate (PDV13016-C) to base of tensile tester
- Fit strip into upper grip (Mec227-BG50) of tensile tester so that test angle is 180 degrees
- Separate the adhesive strip from the test plate at a rate of 300 mm/min
- Record data from the central section of the adhesive strip as it is peeled
- Calculate the average of the peel force and express the value as Newton/25 mm width
- Describe the type of failure (cohesive failure, adhesive transfer, etc.)

Note: tests to be conducted after 20 mins and 24 hours.



Test Plate (PDV13016-C) shown with 25 mm strip being held in Upper Grip

Test Plate (PDV13016-C) for connection to a QC-20 Fixing Post of test stand

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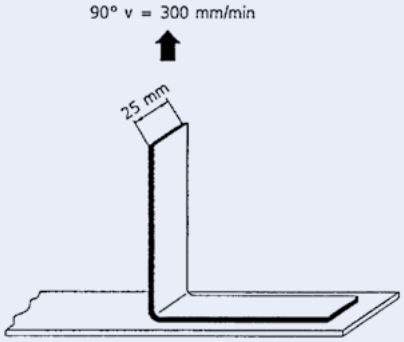
Tension

90 degree Peel Jig (FINAT 2) – Peel Adhesion

Typically gives lower values than FINAT 1 and is considered useful when failure mode of materials is 'paper tear'

- Remove backing material from 25 mm wide strip
- Affix strip to float glass (PSV15030) and roll twice using standard roller (PSV14155)
- Fit float glass into horizontal pull-peel table (PDV15031) positioned on base of tensile tester
- Fit strip into upper grip (Mec227-BG50) of tensile tester. Test angle is now maintained at 90 degrees
- Separate the adhesive strip from the test plate at a rate of 300 mm/min
- Record data from the central section of the adhesive strip as it is peeled
- Calculate the average of the peel force and express the value as Newton/25 mm width
- Describe the type of failure (cohesive failure, adhesive transfer, paper tear, etc.)

Note: tests to be conducted after 20 mins and 24 hours.



▲ Pull-Peel Table (PDV15031) shown with 25mm strip being held in Upper Grip (Mec227-BG50)

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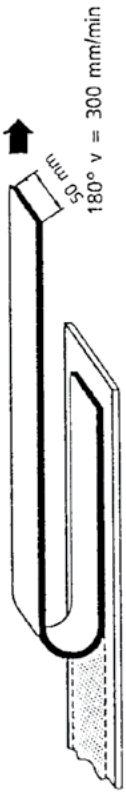
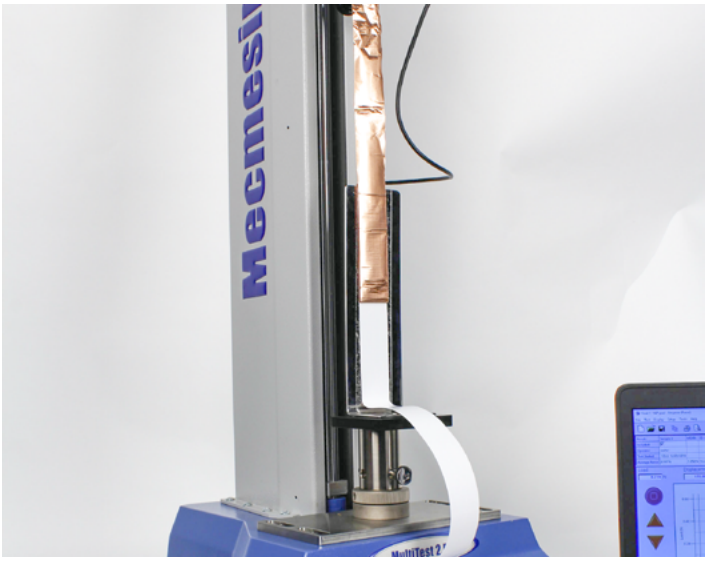
180 degree Peel Jig (FINAT 3) – Low-speed Release Force to separate release backing

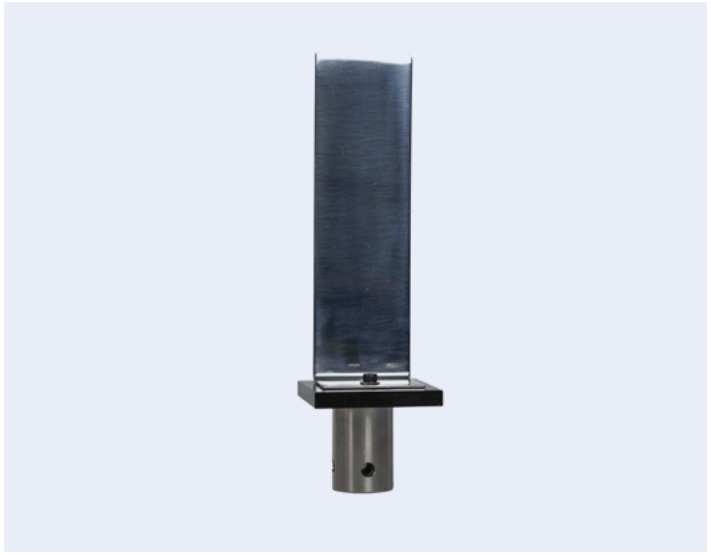
- Affix 50 mm wide strip to test plate (PDV13016-C) using double-sided tape
- Fit test plate (PDV13016-C) to base of tensile tester
- Fit strip into upper grip (Mec227-BG50) of tensile tester so that test angle is 180 degrees
- Separate the adhesive strip from the test plate at a rate of 300 mm/min
- Record data from the central section of the adhesive strip as it is peeled
- Calculate the average of the peel force and express the value as Newton/50 mm width

Note: To ensure good contact between release backing and adhesive the tests are to be conducted 20 hours after strips have been compressed together.





▲ Test Plate (PDV13016-C) shown with 50 mm strip being held in Upper Grip (Mec227-BG50)



▲ Test Plate (PDV13016-C) for connection to a QC-20 Fixing Post of test stand

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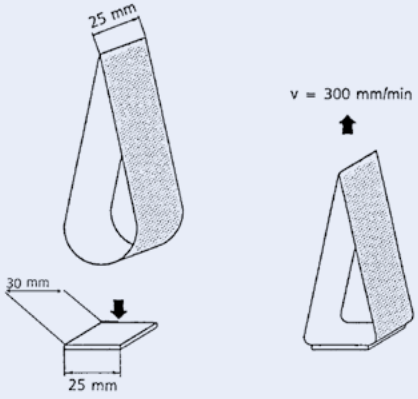
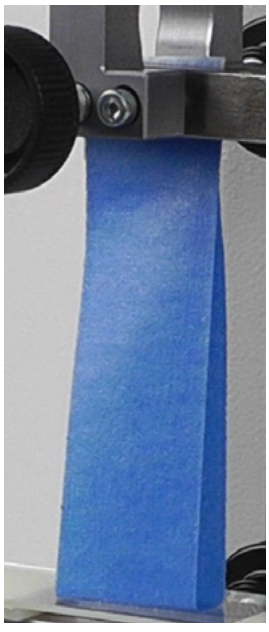
Tack Test Jig (FINAT 9) – Loop Tack (aka "Quick-stick") measurement

- Remove backing material from 25 mm wide strip
- Form loop with adhesive surface being outermost
- Fit loop into upper grip (Mec227-BG50) of tensile tester
- Compress the loop to lower Tack Test Jig (PDV13016-A) at 300 mm/min until full contact over float glass plate has been achieved
- Immediately reverse the tester to separate the loop from the glass plate at a tensile rate of 300 mm/min
- Record the maximum separation force

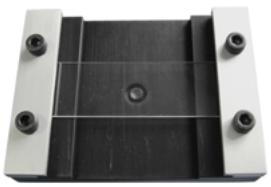
Note: If adhesive transfer or paper tear occurs this should be recorded





◀ Test Plate (PDV13016-A) shown with 25 mm strip being held in Upper Grip (Mec227-BG50)

▼ Test Plate (PDV13016-A) shown with float glass plate fitted



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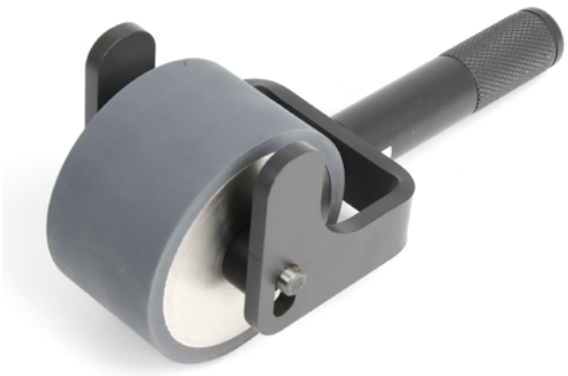
Additional Accessories

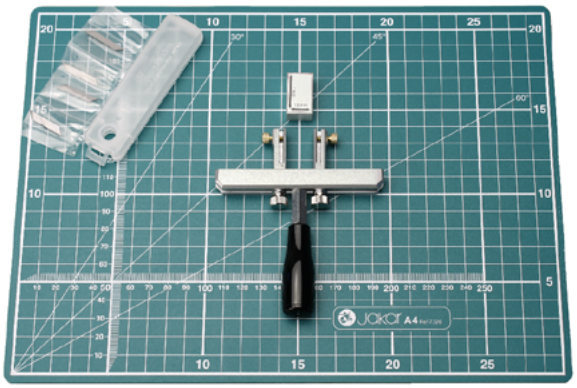
Standard Roller (FINAT) - applies a standard pressure to the specimen irrespective of the variation in hand pressure on the handle.



Roller of 85 mm diameter and 50 mm width. Fitted with rubber surface of Shore hardness A 80. Weight is 2kg

Part no: PSV14155

Sample Cutters - allows specimen strips to be cut cleanly and straight to the required width. Supplied with protective mat, 15 mm x 1 inch width adjustment block and spare cutter blades.



115 mm and 1 inch wide cutter. Specimen widths from approximately 15 mm – 70 mm may be cut.

The Width Adjustment Block quickly enables sample widths of 15 mm or 1 inch to be prepared for ASTM F88, JIS Z 0238:1998 and JIS Z 1707:2019.

Part no: PSV13007

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FS 58553

Mecmesin reserves the right to alter equipment specifications without prior notice.
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