

# TEST CERTIFICATE

## PULL OUT TESTING IN ACCORDANCE WITH THE CLIENT'S SPECIFICATION



On behalf of on behalf of Buttonfix Limited,  
Unit A, 1 Britton Street,  
London, EC1M 5NW.

### PULL OUT TESTING

### UNIT 4 POOLE HALL BUSINESS PARK, ELLESMERE PORT, CH66 1UA

**TEST DESCRIPTION:** A series of pull-out tests were carried out on a Buttonfix Bonded VHB products. The 10mm 'Foamex' PVC board was bonded using a J-Tape 2106 double sided VHB acrylic adhesive mounting tape. The testing was carried out using a calibrated hydraulic ram and handpump. The fixing was loaded at an angle of 85 degrees from the horizontal, the load was manually applied at a steady rate. All testing was carried out to the client's specification and complete at the STS-UK Testing Laboratory.

<b>REF NO.:</b>	DR-5354	<b>DATE TESTED:</b>	14 <sup>th</sup> June 2021
<b>JOB NO.:</b>	P10068	<b>CERTIFICATE DATE:</b>	16 <sup>th</sup> June 2021
<b>CERTIFICATE NO.:</b>	IC10255	<b>SUPPLIER/SOURCE:</b>	Buttonfix Limited

#### TEST DETAILS:


Product Tested:	Button Attachment	Item Condition:	New
Target Load:	Failure	Ambient Temperature:	20°C
Test Location:	STS-UK Testing Lab	Procedure or Method:	n/a
Test Number:	One - Three		

#### TEST RESULTS:

Test Sample	Description	Failure Load (kN)	Comments
1	Single fixing -FP1	1.44	Failure occurred on adhesive surface
2	Single fixing -FP2	1.74	Failure occurred on adhesive surface
3	Single fixing -FP3	1.42	Failure occurred on adhesive surface

#### ANALYSIS:

All results for each of the three tests can be found in the table above. The three tests failed at a range of 1.44kN to 1.74kN, giving an average pull out force of 1.53kN (156.02 kg).

<b>For Specialist Technical Services (U.K) Limited</b>			The results found on this Certificate relate only to the product[s] tested as described above. This Test Certificate shall <u>not</u> be reproduced except in full.  QC: TC001 – Test Certificate – v2.0
<b>Approved By:</b>	Andrew Gore		
<b>Position:</b>	Technical Director		
<b>Signature:</b>			

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**TEST CERTIFICATE**  
**SHEAR TESTING IN ACCORDANCE WITH**  
**THE CLIENT'S SPECIFICATION**



On behalf of on behalf of Buttonfix Limited,  
 Unit A, 1 Britton Street,  
 London, EC1M 5NW.

**SHEAR TESTING**  
**UNIT 4 POOLE HALL BUSINESS PARK, ELLESMERE PORT, CH66 1UA**

**TEST DESCRIPTION:** A series of shear tests were carried out on a Buttonfix Bonded VHB products. The 10mm 'Foamex' PVC board was bonded using a J-Tape 2106 double sided VHB acrylic adhesive mounting tape. The testing was carried out using a calibrated hydraulic ram and handpump. The fixing was loaded parallel to the horizontal to induce a shear load on the fixing, the load was manually applied at a steady rate. All testing was carried out to the client's specification and complete at the STS-UK Testing Laboratory.

<b>REF NO.:</b>	DR-5354	<b>DATE TESTED:</b>	14 <sup>th</sup> June 2021
<b>JOB NO.:</b>	P10068	<b>CERTIFICATE DATE:</b>	16 <sup>th</sup> June 2021
<b>CERTIFICATE NO.:</b>	IC10256	<b>SUPPLIER/SOURCE:</b>	Buttonfix Limited

**TEST DETAILS:**


Product Tested:	Button Attachment	Item Condition:	New
Target Load:	Failure	Ambient Temperature:	20°C
Test Location:	STS-UK Testing Lab	Procedure or Method:	n/a
Test Number:	Four - Six		

**TEST RESULTS:**

Test Sample	Description	Failure Load (kN)	Comments
4	Double fixing - FP1	2.71	Failure occurred on adhesive surface
5	Double fixing - FP2	2.70	Failure occurred on adhesive surface
6	Double fixing - FP3	2.77	Failure occurred on adhesive surface

**ANALYSIS:**

All results for each of the three tests can be found in the table above. The three tests failed at a range of 2.70kN to 2.77kN, giving an average pull out force of 2.73kN (278.38 kg).

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<b>Approved By:</b>	Andrew Gore		
<b>Position:</b>	Technical Director		
<b>Signature:</b>			

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# TEST CERTIFICATE

## SHEAR TESTING IN ACCORDANCE WITH THE CLIENT'S SPECIFICATION



On behalf of on behalf of Buttonfix Limited,  
Unit A, 1 Britton Street,  
London, EC1M 5NW.

### SHEAR TESTING

#### UNIT 4 POOLE HALL BUSINESS PARK, ELLESMERE PORT, CH66 1UA

**TEST DESCRIPTION:** A series of shear tests were carried out on a Buttonfix Rebated and Bonded VHB products. The 10mm 'Foamex' PVC board was bonded using a J-Tape 2106 double sided VHB acrylic adhesive mounting tape. The testing was carried out using a calibrated hydraulic ram and handpump. The fixing was loaded parallel to the horizontal to induce a shear load on the fixing, the load was manually applied at a steady rate. All testing was carried out to the client's specification and complete at the STS-UK Testing Laboratory.

<b>REF NO.:</b>	DR-5354	<b>DATE TESTED:</b>	14 <sup>th</sup> June 2021
<b>JOB NO.:</b>	P10068	<b>CERTIFICATE DATE:</b>	16 <sup>th</sup> June 2021
<b>CERTIFICATE NO.:</b>	IC10257	<b>SUPPLIER/SOURCE:</b>	Buttonfix Limited

#### TEST DETAILS:


Product Tested:	Button Attachment	Item Condition:	New
Target Load:	Failure	Ambient Temperature:	20°C
Test Location:	STS-UK Testing Lab	Procedure or Method:	n/a
Test Number:	Seven - Nine		

#### TEST RESULTS:

Test Sample	Description	Failure Load (kN)	Comments
4	Double fixing - FP1-R	5.60	Failure occurred on plastic housing
5	Double fixing - FP2-R	5.36	Failure occurred on plastic housing
6	Double fixing - FP3-R	5.57	Failure occurred on plastic housing

#### ANALYSIS:

All results for each of the three tests can be found in the table above. The three tests failed at a range of 5.36kN to 5.60kN, giving an average pull out force of 5.51kN (561.86 kg).

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<b>Approved By:</b>	Andrew Gore		
<b>Position:</b>	Technical Director		
<b>Signature:</b>			

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