

# GA Ver T Fix Fixing System: *Independent Test Results*

## Test Methods

Positive and negative wind load tests were carried out on Ver T fix plain panels. The items tested consisted of a 900mm square plain aluminium panel and the Ver T Fix fixing system.

The panel under test was fixed to a steel frame on the vertical edges only by means of the Ver T Fix fixing system. An air bag, connected to pressure control via a manifold, was placed between the panel and a reaction frame. The air bag was located between the face of the panel and reaction frame for the positive wind load, and between the rear of the panel and reaction frame for the negative wind load. Horizontal deflection at the centre of the panel was recorded by means of a cable transducer connected to a datalogger. Pressure was monitored by means of a digital manometer connected to the air inlet manifold.

Pressure was increased steadily in increments, with the deflection readings recorded at each increment, until failure occurred. The failure mode for the positive wind load tests was by shearing of the nibs of the support system. The failure mode for the negative wind load tests was by bending of the nibs on the support system. Loading increments and results are detailed in Tables 8 and 9.

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**Table 8:**  
**Positive Wind Load - Ver T Fix System**

Load (kPa)	Deflection (mm)
0.00	0.00
0.15	5.42
0.30	7.21
0.45	9.87
0.60	10.29
0.90	28.15
1.05	35.54
1.20	43.39
1.35	50.14
1.50	55.81
1.65	61.63
1.80	66.64
1.95	70.42
2.10	74.26
2.25	75.65
<b>Failure Load (kPa)</b>	<b>3.23</b>

**Table 9:**  
**Negative Wind Load - Ver T Fix System**

Load (kPa)	Deflection (mm)
0.00	0.00
0.20	6.99
0.40	9.23
0.60	13.25
<b>Failure Load (kPa)</b>	<b>0.65</b>