

**Certificate No:** 3080  
**Client:** Zip-Clip Ltd  
**Test Date:** June 2004  
**Test Site:** Engineering Department Cardiff University  
**Certified By:** Dr Sam Evans

***This is to certify that*** the Centre for Mechanical, Materials and Minerals Engineering at Cardiff University tested 5 samples using a Testometric M500 50kN tensile testing machine calibrated to UKAS traceable standards and certified accurate to class 0.5.  
Each assembly was loaded to a 100kg Safe Working Load with a 5:1 Safety Factor and then to failure.

***Zip-Clip Plus System***

Test No	Required SWL	Safety Factor	Failure Load of Test	Result
1	100kg (981N)	5:1 SF (4905N)	6835N	Pass
2	100kg (981N)	5:1 SF (4905N)	8163N	Pass
3	100kg (981N)	5:1 SF (4905N)	7313N	Pass
4	100kg (981N)	5:1 SF (4905N)	5776N	Pass
5	100kg (981N)	5:1 SF (4905N)	6390N	Pass

All above load tests meet the minimum requirement of 100kg Safe Working Load with a 5:1 Safety Factor.



**Dr. Sam Evans**