

Test data for Shear Testing, Spida Fixings bonded with Araldite 2015-1.

1. Mild steel fixings
2. Heat treated to 8.8
3. Bonded with Araldite 2015-1
4. Cured in an oven for 3 hours
5. Token prepared with 60 grit sanding disk on a rotary sander
6. Both surfaces washed with acetone
7. Bonded onto a 10mm mild steel token
8. Pulled in our test cell in house
9. An eyelet was placed at the very top of the fixing and a shear force was applied until failure.



Product	Base size	Material	Height of fixing	Failure in KN	Note
M4 STUD	11MM	20MNB MILD STEEL	20MM	4.5KN	ADHESIVE FAILURE
M4 STANDOFF	18MM	20MNB MILD STEEL	11MM	5.25KN	ADHESIVE FAILURE
M4 STUD	35MM	20MNB MILD STEEL	20MM	----- -	THE FIXING DEFORMED
M4 STANDOFF	35MM	20MNB MILD STEEL	11MM	6KN	ADHESIVE FAILURE
M4 STANDOFF	53MM	20MNB MILD STEEL	11MM	----- -	THE FIXING DEFORMED

M6 STANDOFF	18MM	20MNB MILD STEEL	15MM	4.8KN	ADHESIVE FAILURE
M6 STANDOFF	35MM	20MNB MILD STEEL	15MM	6.3KN	ADHESIVE FAILURE
M6 STANDOFF	53MM	20MNB MILD STEEL	15MM	10.1KN	DEFORMED BASE

M8 STANDOFF	18MM	20MNB MILD STEEL	18MM	4.5KN	ADHESIVE FAILURE
M8 STUD	18MM	20MNB MILD STEEL	18MM	4.8KN	ADHESIVE FAILURE
M8 STANDOFF	35MM	20MNB MILD STEEL	18MM	5,25KN	ADHESIVE FAILURE
M8 STUD	35MM	20MNB MILD STEEL	50MM	2.6KN	ADHESIVE FAILURE
M8 STANDOFF	53MM	20MNB MILD STEEL	18MM	9.75KN	DEFORMED BASE

M10 STANDOFF	23MM	20MNB MILD STEEL	22MM	5.8KN	ADHESIVE FAILURE
M10 STANDOFF	35MM	20MNB MILD STEEL	22MM	6.15KN	ADHESIVE FAILURE
M10 STANDOFF	53MM	20MNB MILD STEEL	22MM	6.75KN	ADHESIVE FAILURE

M12 STANDOFF	23MM	20MNB MILD STEEL	24MM	5.7KN	ADHESIVE FAILURE
M12 STANDOFF	53MM	20MNB MILD STEEL	24MM	6.65KN	ADHESIVE FAILURE

Disclaimer: The data provided in this document is advisory only and should not be used as a load rating. The responsibility for assessment of the parts as fit for-purpose falls with the user. Self-certification that the parts meet the user's performance requirements is advised. Australian Parts & Equipment cannot be held responsible for the misuse or overloading of any fixing product supplied, irrespective of the data provided in this document.