

Universal Tool Trolley Duplex Rail Flex Testing

**Force Applied Perpendicular to the rail
5 lbs.-- Nominal pull force
10 lbs pull -- Maximum expected**

Rail Length & Configuration	Rail Clamp Span (inches)	Rail Stabilizer Location	5 lbs. Force - Lateral Displacement (0.000")	10 lbs. Force - Lateral Displacement (0.000")
30" Extender Rail	30		1.0	2.0
50" Rail, No Joint	50		2.0	5.0
60" [30" + 30" Rails 1 Draw-Tight (D-T) Joint]	60		2.0	7.0
90" [Three 30" Rails 2 D-T Joints]	90		5.5	18.5
90" [Three 30" Rails 2 D-T Joints]	90	1 Stabilizer at 18" Left End	4.5	11.5
90" [Three 30" Rails 2 D-T Joints]	90	2 Stabilizers 18" from ends	3.5	8.0
100" [Two 50" Rails 1 D-T Joint]	100		7.0	27.0
100" [Two 50" Rails 1 D-T Joint]	100	1 Stabilizer at 18" Left End	4.0	12.0
100" [Two 50" Rails 1 D-T Joint]	100	2 Stabilizers 18" from ends	4.0	8.0
130" [Two 50" + One 30", 2 D-T Joints]	130		20.0	100.0
130" [Two 50" + One 30", 2 D-T Joints]	130	2 Stabilizers 24" from ends	3.0	11.0
160" [Two 50" + Two 30", 3 D-T Joints]	160		30.0	230.0
160" [Two 50" + Two 30", 3 D-T Joints]	160	2 Stbl 54" from end Trolley Pull @ 27"	1.0	4.5
160" [Two 50" + Two 30", 3 D-T Joints]	160	2 Stbl 54" from end Trolley Pull @ 80	1.0	2.5
160" (two 50" + two 30", 3 D-T Joints)	160	2 Stbl 54" from end Trolley Pull @ 107"	1.0	3.0