

HLL Drop Test Examples

2 Person Drop Test DT 4.0

Using the same accessories/components as test DT 2.0, test DT 4.0 simulates 2 persons free falling 6ft at the same time. Both persons are attached to the same 33ft length leg of a 100ft HLL line. Both are connected to the HLL with a personal E/A as required by ANSI/OSHA in order to limit the maximum arrest forces to 1,800lb or less. A 282lb test/wt as specified by ANSI Z359.13-13 article 4.1.3 representing a 310lb max. body weight including tools and equipment. $282\text{lb} \times 2 = 564\text{lb}$ solid test/wt. The event of 2 persons falling at exactly the same time is unlikely to occur. However if that should happen, test DT 4.0 demonstrates that a HLL rigged with SAS mfg. accessories/components, performs within ANSI/OSHA fall protection standards. Test results are shown in Table 3.

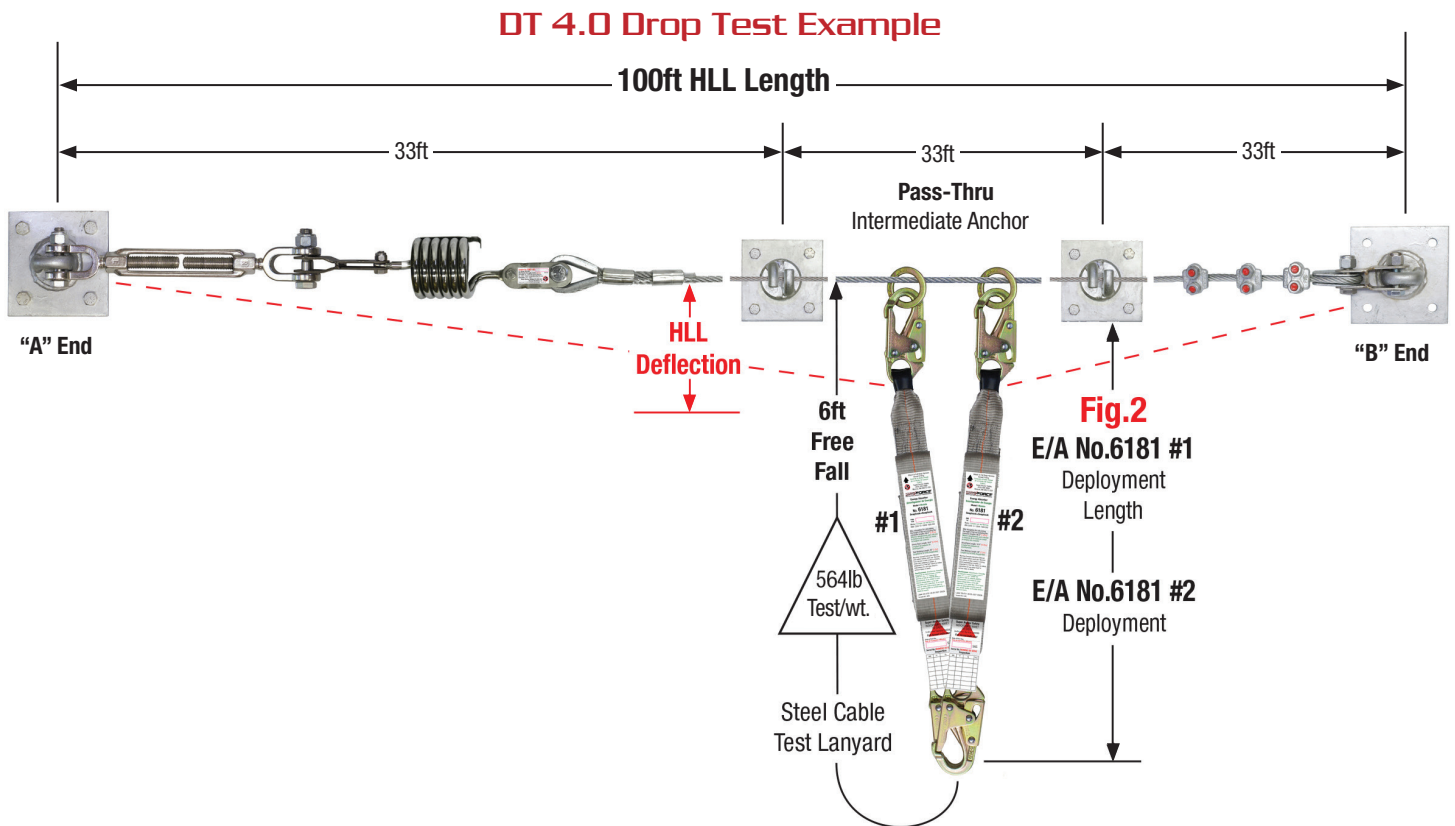


Table 3 Drop Test Reports

Test Report	No.1065-AS Deployment	No.6181 E/A Deployment	Max. Arrest Force	Max. HLL Deployment
DT 4.0	25.9"	#1 35.4" #2 34.4"	7.0kN	77"

Note 1: No.1065-AS has a max. deployment of 52".

Note 2: No.6181 personal E/A has a max. deployment of 48".

Note 3: ANSI/OSHA specify a max. arrest force of 8kN.