

# HLL Drop Test Examples

## HLL Drop Tests

In 2021, Super Anchor Safety conducted HLL drop tests on a 100ft length drop test fixture recording the results with certified test equipment. All accessories and components used in the test are mfg. to SAS specifications and comply with current ANSI and OSHA safety standards.

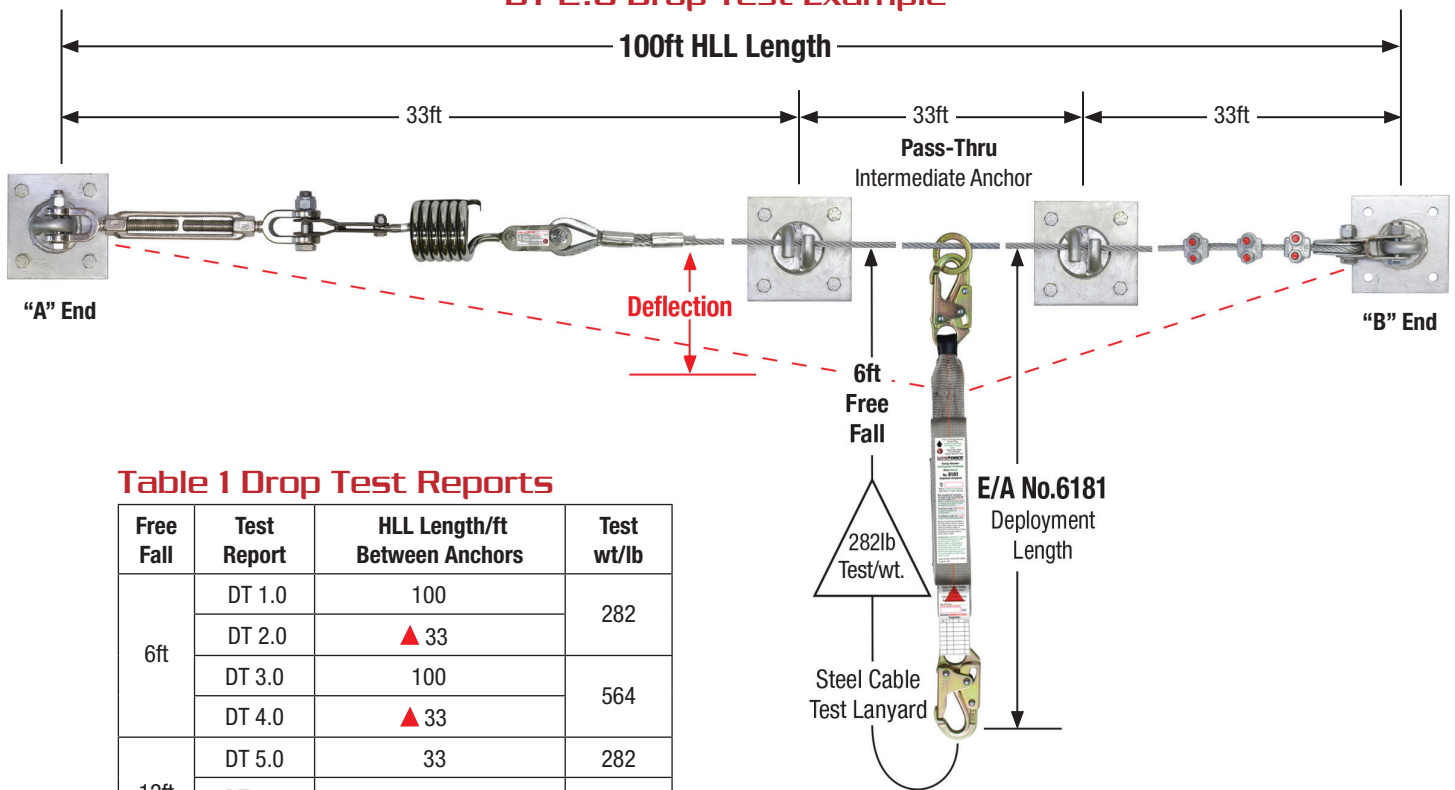
## Drop Test DT 2.0

This test represents 1 person using a personal E/A attached to one leg of a 100ft HLL w/33ft spacing between anchors and subjected to a 6ft free fall. Test results are shown in Table 2. Test reports and videos shown in Table 1 are available by request.

## Accessory/Component Specifications

- Wire Rope:** 3/8" x 7x19 galv.
- Cable Swage:** Factory and cable clamps
- Turnbuckle:** No.1058 HDG
- HLL E/A:** Spring No.1065-S
- Couplers:** No.1087-SA/No.1081-S
- O-Rings:** No.5010-SM
- PPE E/A:** ANSI type No.6181
- End Anchors:** Loop top No.1037 D-plate
- Intermediate:** Pass-Thru No.1037-P D-plate

### DT 2.0 Drop Test Example



**Table 1 Drop Test Reports**

Free Fall	Test Report	HLL Length/ft Between Anchors	Test wt/lb
6ft	DT 1.0	100	282
	DT 2.0	▲ 33	
	DT 3.0	100	564
	DT 4.0	▲ 33	
12ft	DT 5.0	33	282
	DT 6.0	100	564
	DT 7.0	33	

▲ DT 2.0/DT 4.0 test examples

Note 1: SAS specifies a max. of 30ft between anchors.

Note 2: 100ft end to end HLL were tested for worst case scenario in a free fall.

Note 3: Table 3, 564lb test/wt. represents 2 workers falling at the same time w/personal E/A's attached.

Note 4: Table 3, 12ft free fall w/ANSI 12ft compliant E/A.

**Table 2 Drop Test Reports**

Test Report	No.1065-AS Deployment	No.6181 E/A Deployment	Max. Arrest Force	Max. HLL Deployment
DT 2.0	15-3/4"	24"	5.98kN	56-3/8"

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.