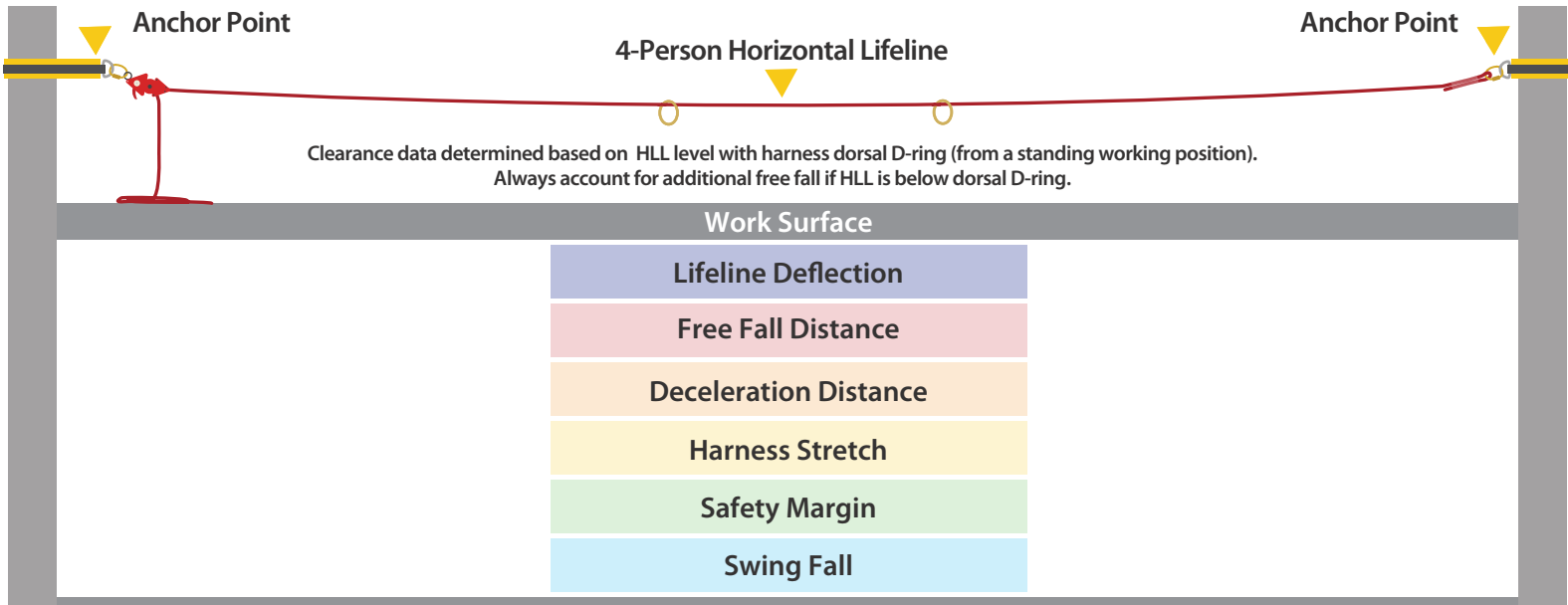


4-PERSON ROPE HLL FALL CLEARANCE

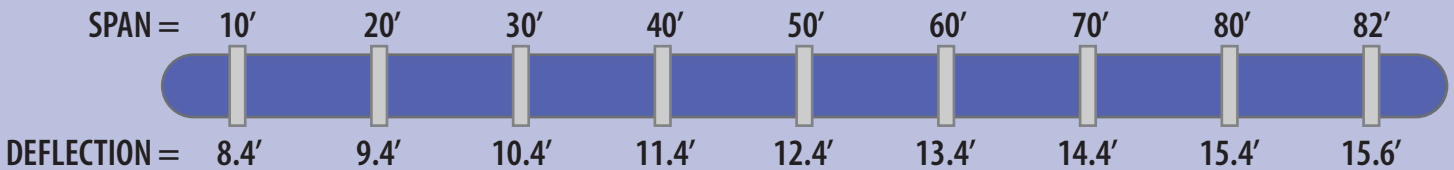
TOTAL FALL CLEARANCE =

DEFLECTION + FREE FALL + DECELERATION + STRETCH + SAFETY MARGIN + SWING FALL



DEFLECTION

What's the length of your horizontal lifeline span?



FREE FALL

What type of connecting device are you using?

SELF-RETRACTING LIFELINE (SRL) = 0' **OR** 6' FREE FALL LANYARD = 6'

DECELERATION

Is your connector a Class-A SRL, Class-B SRL, or a Lanyard?

CLASS-A SRL = 2' **OR** CLASS-B SRL = 4.5' **OR** 6' FREE FALL LANYARD = 4'

STRETCH

Always account for harness stretch!

HARNESS STRETCH = 1.5'

SAFETY MARGIN

Add a 3' safety margin!

SAFETY MARGIN = 3'

Eliminate Whenever Possible!

SWING FALL

IF SWING FALL EXISTS, ADD MORE CLEARANCE!

4-PERSON ROPE HLL FALL CLEARANCE

TOTAL FALL CLEARANCE =

DEFLECTION + FREE FALL + DECELERATION + STRETCH + SAFETY MARGIN + SWING FALL *

When Using A Class-A SRL...

Span	Deflection	Free Fall	Deceleration	Harness Stretch	Safety Margin	TOTAL FALL CLEARANCE *					
10'	8.4'					13.9'					
20'	9.4'					14.9'					
30'	10.4'					15.9'					
40'	11.4'					16.9'					
50'	12.4'					17.9'					
60'	13.4'	+	0'	+	2'	+	1.5'	+	2'	=	18.9'
70'	14.4'					19.9'					
80'	15.4'					20.9'					
82'	15.6'					21.1'					

When Using A Class-B SRL...

Span	Deflection	Free Fall	Deceleration	Harness Stretch	Safety Margin	TOTAL FALL CLEARANCE *					
10'	8.4'					16.4'					
20'	9.4'					17.4'					
30'	10.4'					18.4'					
40'	11.4'					19.4'					
50'	12.4'					20.4'					
60'	13.4'	+	0'	+	4.5'	+	1.5'	+	2'	=	21.4'
70'	14.4'					22.4'					
80'	15.4'					23.4'					
82'	15.6'					23.6'					

When Using A 6' Free Fall Lanyard...

Span	Deflection	Free Fall	Deceleration	Harness Stretch	Safety Margin	TOTAL FALL CLEARANCE *					
10'	8.4'					21.9'					
20'	9.4'					22.9'					
30'	10.4'					23.9'					
40'	11.4'					24.9'					
50'	12.4'					25.9'					
60'	13.4'	+	6'	+	4'	+	1.5'	+	2'	=	26.9'
70'	14.4'					27.9'					
80'	15.4'					28.9'					
82'	15.6'					29.1'					

* Eliminate **Swing Fall** whenever possible! If **Swing Fall** exists, always account for additional fall clearance.