



Fall Arrest Anchor Point Capacity Verification

Document #		Standard Owner	
Position	Name	Ownership Date	
Safety Ops Director	Andrew Cowart	01-Nov-2021	

Revision Summary Change			
Rev	Revision Date	Change Description	Effective Date
1	01-Nov-2021	Released for use.	01-Nov-2021
2	6-Sept-2023	Released for use.	6-Sept-2023



FALL ARREST ANCHOR POINT CAPACITY VERIFICATION SOP

This Standard Operating Procedure (SOP) outlines steps to ensure the correct engineering is being used for fall arrest anchor points, verifies the correct action is taken, and establishes a standard for future fall arrest solutions.

Notification:

- 3M recently increased the maximum arresting force of its Smart Lock Leading Edge SRL due to test weight changes of the new ANSI Z359.14 standards.
- Previously, an arresting force of 1,350lbs per each attached worker has been used in engineered (certified) fall arrest systems.
- However, when utilizing 3M's Smart Lock Leading Edge SRL, the maximum arresting force has increased to 1,500lbs.
- **To ensure Horizontal Lifeline systems and other fall arrest anchor points are compatible with 3M Smart Lock Leading Edge SRLs, all fall arrest systems where Smart Lock Leading Edge will be used must be identified and verified for this capacity.**
- All other systems utilizing Nano-Lok Edge (Single or Twin Leg), Ultra-Lok Leading Edge, or Protecta Rebel Leading Edge SRLs continue to use a 1,350lb arrest force.



Above: 3M's Smart Lock Leading Edge SRL

Action:

1. To ensure all existing systems are inspected, each district safety manager (DSM) must verify engineering of fall arrest anchorages on each of their projects that are using the Smart Lock Leading Edge SRL.
2. Any Horizontal Lifeline system where Smart Lock Leading Edge SRLs will be used must have designs verified for compatibility with the Smart Lock Leading Edge SRL and the 1,500lb arresting force. **Contact your District's Kiewit Infrastructure Engineers (KIE) representative to review systems utilizing Smart Lock Leading Edge SRLs.**



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3. DSMs must complete the following [fall arrest anchor point verification survey](#) no later than Sept. 29, 2023, to confirm this has been completed on all their projects.

Note:

- Any fall arrest anchorage below D-ring, to include horizontal lifelines, must have sponsor or area manager approval with a notification also sent to the district manager, division manager and executive vice president.

Questions:

- Thomas Mousel, KIE: thomas.mousel@kiewit.com
- Steve Sanders, KIE: steve.sanders@kiewit.com
- [Operations Safety Director](#) or the [SMEs](#) for Fall Protection.