



# Leading Edge – Behind the Scenes

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# What's on the Agenda?

## *Topics for Discussion*

- What is Leading Edge and some of the applications?
- What makes Leading Edge products unique?
- How are Leading Edge products tested?
- The future of Standards
- Leading Edge products available today
- New products for 2021

# What is Leading Edge and the applications?

## ***OSHA 1926.500***

- **Leading edge:** The edge of a floor, roof, or formwork for a floor or other walking or working surface (such as the deck) which changes location as additional floor, roof, decking, or formwork sections are placed, formed, or constructed. A leading edge is considered to be an “unprotected side and edge” during periods when it is not actively and continuously under construction.
- ANSI “Leading Edge” refers to a sharp edge in which a lanyard can cross over.

# Applications and Hazards

## *Steel Erection*



# Applications and Hazards

## *Concrete and form work*



# Applications and Hazards

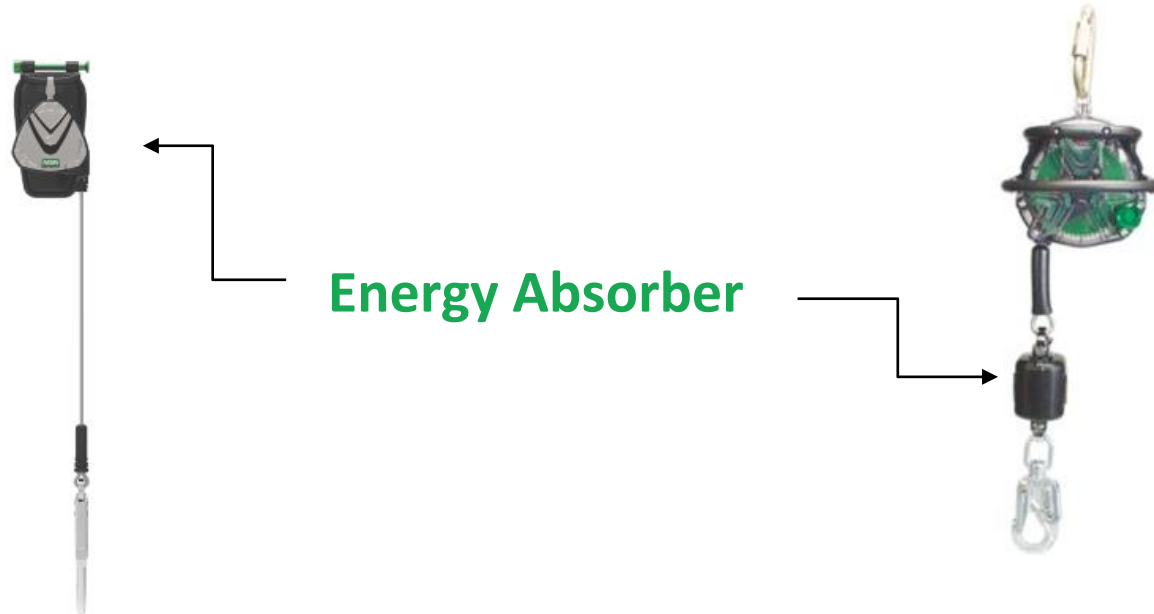
## *Steel Decking*



# What makes Leading Edge products unique?

## *What does ANSI require for design?*

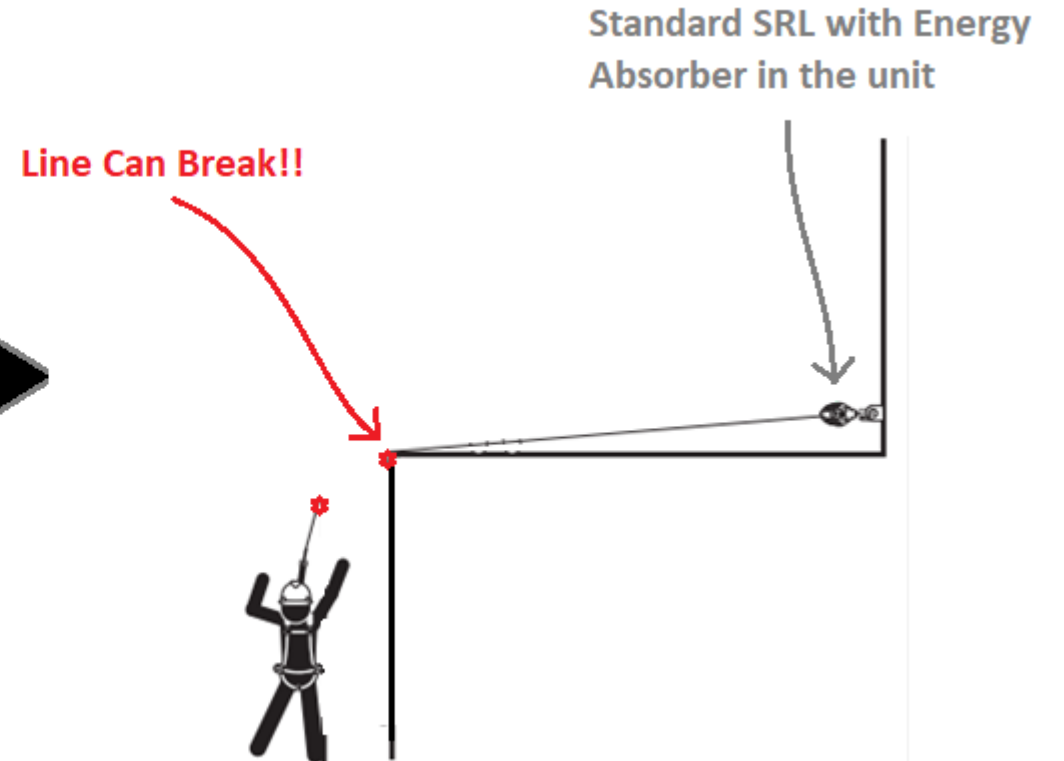
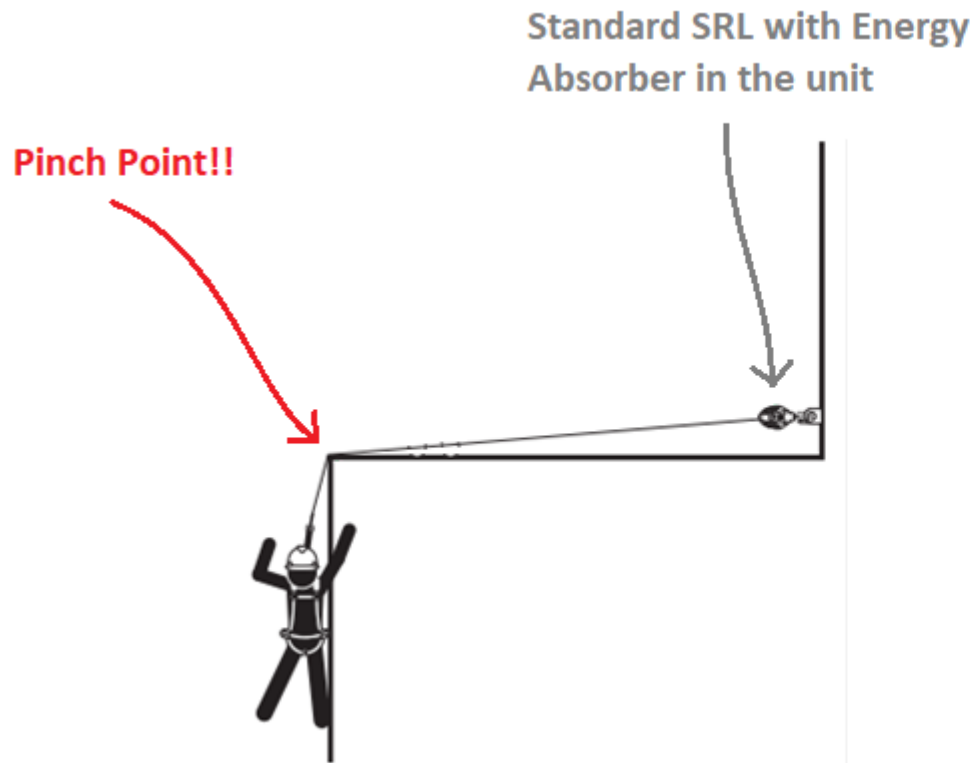
- ANSI Z359.14 requires the energy absorption to be located near the body.



But why does this matter....

# What happens in a standard SRL?

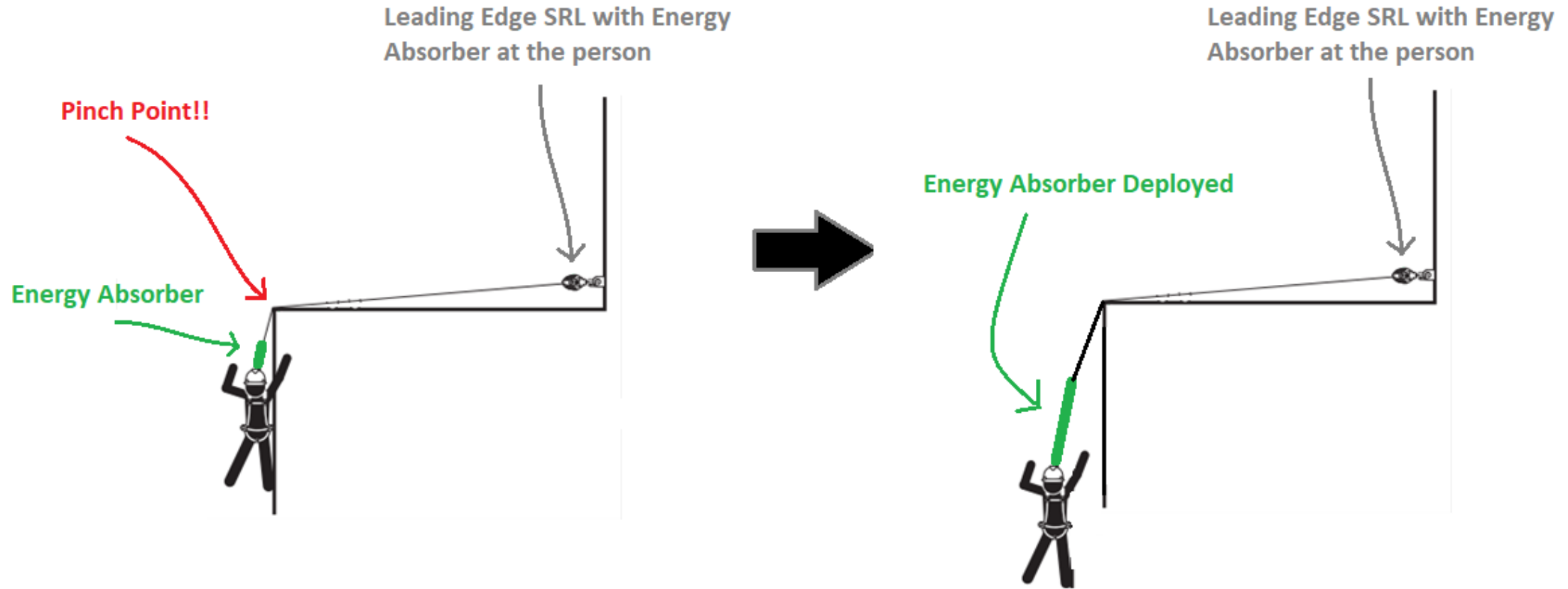
*Energy absorption capacity is limited over the edge*





# What happens in a Leading Edge SRL?

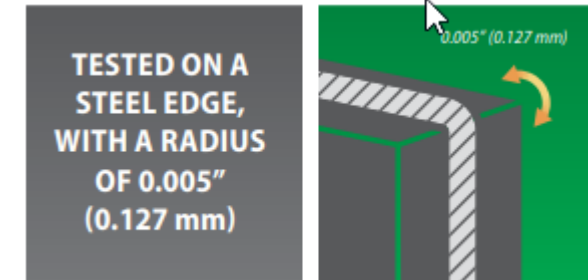
*Energy absorption near the body can arrest the fall*



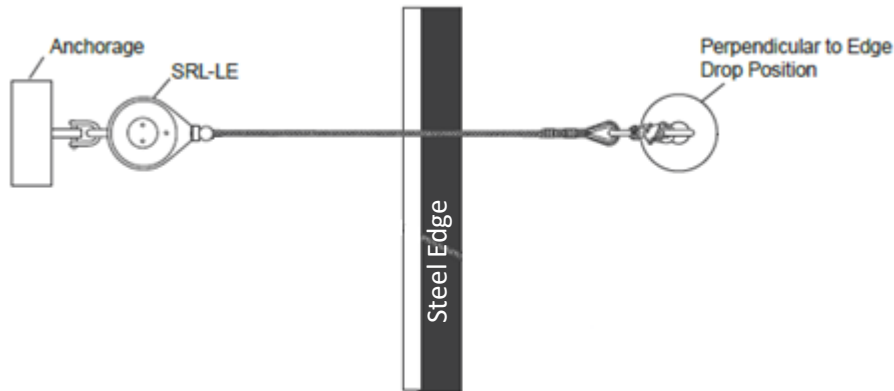
# How are Leading Edge products tested?

## ANSI Z359.14 Review

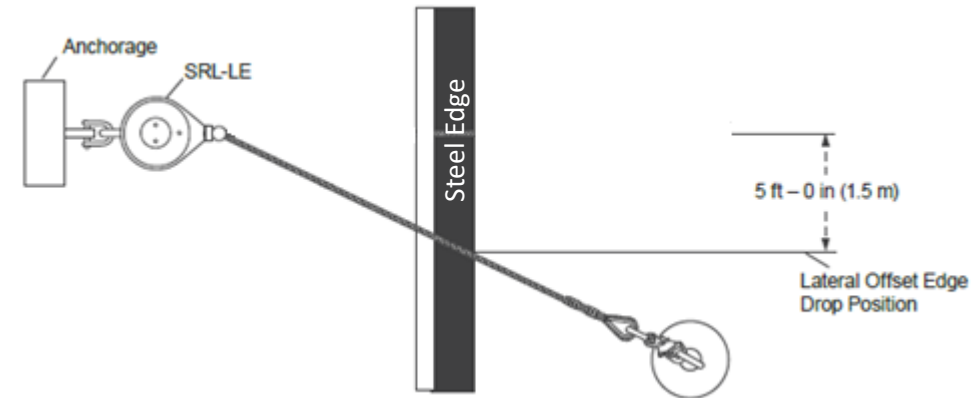
- SRL-LEs are tested perpendicular to the edge, and with an offset over a steel edge



Perpendicular Drop Test



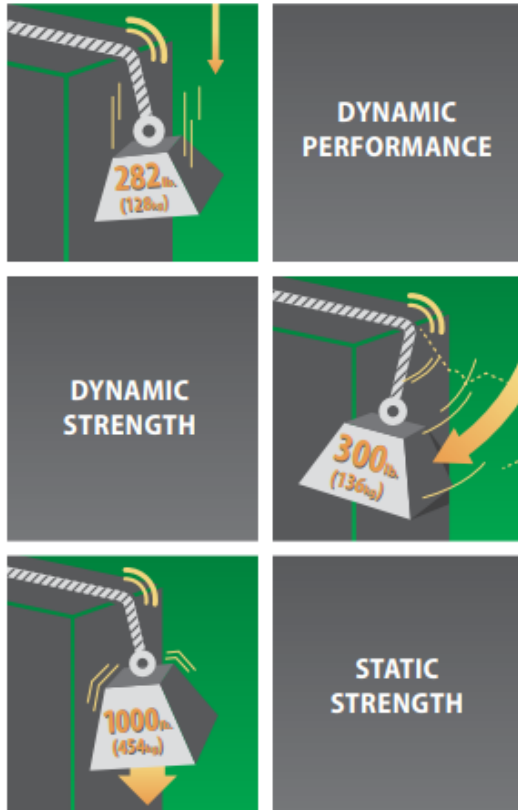
Offset Drop Test



Drop tests completed in Ambient, Cold, Hot and Wet Conditions

# How are Leading Edge products tested?

## ANSI Z359.14 Review



In addition to meeting standard (overhead) force and extension requirements, SRL-LE must meet 1800 lbs max force and 900 lbs avg for Class B or 1,350 lbs avg for Class A

After about 8ft of free fall with 300 lbs, the SRL-LE must arrest and hold the weight

After successfully passing the Dynamic Performance, the same SRL-LE must hold a minimum of 1000 lbs static strength

# How are Leading Edge products tested?

## ***ANSI Z359.14 Review***

- <https://youtu.be/IEAsnj-ZLQA>



# Leading Edge Products Today

*What is available now?*

