



# SUPER ANCHOR SAFETY®

## SAS-Max-Force™ Energy Absorbers (E/A's) Instruction/Specification Manual 07-2021

ENGLISH  
VERSION

**!WARNING TO USER!**  
You are required to read and use the Instruction/Specification manual supplied at the time this device was shipped. Improper use and installation can result in serious injury or death. Follow inspection requirements before each use.

### Material Specifications

- Tear webbing: Polyester
- Cover/Backer: Polyester
- Min. Tensile Strength: 5,000lb
- Carabiners: Aluminum Auto-twist lock
- ⊗ Inspection points

### Absorber Compliance:

ANSI-Z359.13 / CSA Z259.11-17/ OSHA 1926.502

### Connector Compliance:

ANSI-Z359.12-2009 CSA-Z259.12-11

**Snaphooks/Carabiner Gate Strength:**  
3,600lb(16kN)

**Function:** When a fall occurs, the absorber tear webbing will deploy and gradually reduce the fall velocity to a complete stop (fall arrest). The backer/cover webbing limits the deployment length as specified in **Table 1.0**. **WARNING! Not using absorbers as specified in this manual can result in serious injury or death when subjected to a fall.** Note: Backer webbing color may vary from examples shown.

### Specification of Use

Fall Arrest or Work Positioning for one person only (maximum body weight as specified in **Table 1.0**, including tools and equipment). Use with **PPE** (personal protective equipment) mfg. by **SAS** (Super Anchor Safety) or other PPE ensured for compatibility by a qualified or competent person. **Maximum free fall 6ft(1.8m).**

### Absorber "A" end Attachment to PPE

Attach absorber "A" end snaphook or carabiner to a full body harness dorsal D-ring only. Loop end models are required to be connected with a locking type carabiner only. See **Fig.3**.

### Absorber "B" end Attachment to PPE

"B" ends are specified for attachment to rope grabs, fall arresters, lanyards and self-retracting lifelines (SRL's). **Loop Ends** are fitted with PVC or web wear pads and are compatible with **SAS** snaphooks or carabiners. **DO NOT connect absorbers to a side D-ring or body belt for work positioning.** Static loads may cause minor deployment.

**PPE Connectors Supplied by User:** Snaphooks, carabiners or other class 1 connectors attached to the "A" or "B" end must comply with current OSHA, ANSI or CSA fall protection standards and have 3,600lb gate strengths. **Two connectors should not be attached to each other unless compatibility has been ensured by a qualified or competent person.**

### PPE Requirement

All personal protective equipment including full body harnesses, rope grabs, fall arresters, lifelines, lanyards and SRL's used with **SAS** energy absorbers are required to comply with current OSHA, ANSI or CSA fall protection equipment standards.

**Table 1.0 Absorber Specifications**

Type	Webbing Color	User Weight Range	Avg. Peak Force	Tear Webbing Deployment	Deployment Length of Fall
ANSI	Gray	130-310lb(59-140kg)	900lb(4kN)	Max.48"(1.2m)	Max. 66"(1.6m) Avg. 54"(1.4m)
CSA		135-310 (61-140kg)			
*6186-HD	Orange	200-340lb(90-154kg)	1,300lb(6kN)	Max.69"(1.75m)	

\* US distribution only.

### Absorber Service Lengths (SL)

E/A service lengths are measured from the "A" to "B" ends as supplied from SAS factory (shown at **Fig.2**). Users are to supply loop end connectors.

**Table 1.1 E/A Specifications**

ANSI	CSA	A-end	B-end	SL	wt(oz)
6180	6180-Z	Snaphook	Loop	23"	21
6181	6181-Z		Snaphook	28"	38
6182	6182-Z		D-ring	26"	30
6183/C*	6183/ZC*	Carabiner	Loop	23"	13
6184/C*	6184/ZC*		D-ring	26"	19
6186	N/A	Snaphook	D-ring	26"	33
6185	N/A	Loop	Loop	18"	8
6188	6188-Z	△Dielectric	SH+D-ring	26"	28

\* Captive carabiner factory attached. N/A=USA distribution only.  
Note: Loop ends require user to supply connector.

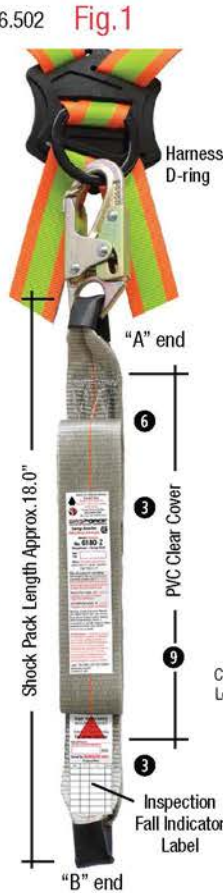
△ Dielectric connectors have a min. 9kV dielectric resistance

### ANSI versus CSA Model Types

ANSI E/A's have a wider user wt. range and lower production costs. CSA E/A's are specified for use in Canada, display the CSA logo and printed English/French.

### WARNING HAZARD EXPOSURE! DO NOT CONTACT EQUIPMENT WITH:

- Sharp, abrasive edges or cutting tools.
- Electrical sources or power lines.
- Open flame, high heat or hot asphalt.
- Solvents, caulking, paint or stains.
- DO NOT use for animal tether.



Note: Not all E/A models are shown in this manual. See Table 1.1, 1.2 and 1.3 for specific model types.

**Fig.2 Standard Model E/A's**



**Fig.3 Standard Model E/A's**

