



Winch Bars & Accessories

Tapered and angled at the end for easy operation, Ancra's 34-inch Winch Bars are knurled at two sections and the tip is grooved to improve grip in the winch. They are heat-treated for extra strength, cycle tested to simulate years of heavy use and proof loaded during manufacturing. **To be used to release chain load binders as well as tension winches. Not to be used as a cheater bar to tension load binders.**



Combination Box End Painted
Part No. 42313-12 Weight: 6.5 lbs./2.95 kg.



Standard Painted
Part No. 42313-10 Weight: 5.0 lbs./2.27 kg.



Combination Chrome
Part No. 42313-19 Weight: 6.5 lbs./2.95 kg.



Standard Chrome
Part No. 42313-17 Weight: 5.0 lbs./2.27 kg.



Combination Painted
Part No. 42313-20 Weight: 6.5 lbs./2.95 kg.

Winch Accessories



H-2 Hook
Part No. 44102-11
Flame-cut from 5/8-in. material and can be welded flat on trucks. Accepts web loops, D-rings, cable or rope. Meets CHP anchorage requirements when properly secured.
Weight: .61 lb./ .28 kg.



Corner Iron Hook
Part No. 44122-10
Constructed with no sharp corners to reduce abrasion to rope or cable.
Weight: .63 lb./ .29 kg.



Web Winder
Part No. 45801-10
Constructed of all steel, the Ancra Web Winder winds 2-in., 3-in. and 4-in. webbing binders for compact storage. Easy to attach to truck rails, easy to remove with tapered forks, and easy to disassemble for storage.
Weight: 3.25 lbs./1.48 kg.

Winch Strap Assemblies

Ancra Winch Strap Assemblies team heavy duty, wear- and weather-resistant load control straps with strong, dependable hardware to meet the demanding conditions of flatbed operations. Ancra straps meet California Highway Patrol specifications and are tested for strength and durability. They can be supplied with a loop end for permanent attachment to truck winch mandrels. Meets or exceeds WSTDA T-1 standard specifications for synthetic web tiedowns.



2" Winch Strap Assemblies Breaking strength 10,000 lbs./4,545 kg.; WLL 3,333 lbs./1,515 kg. using 41632-13 Webbing



Part No. 41659-10-27 2-in. x 27-ft. Winch Strap w/40891-18 Flat Hook
Part No. 41659-10-30 2-in. x 30-ft. Winch Strap w/40891-18 Flat Hook



Part No. 41659-11-27 2-in. x 27-ft. Winch Strap w/40978-11 Delta Ring
Part No. 41659-11-30 2-in. x 30-ft. Winch Strap w/40978-11 Delta Ring

IT IS THE OWNER'S AND USER'S RESPONSIBILITY TO DETERMINE SUITABILITY OF A PRODUCT FOR ANY PARTICULAR USE. REMEMBER, ALL STRAP ASSEMBLIES OR SYSTEMS ARE AS STRONG AS THEIR WEAKEST COMPONENT INCLUDING THE POINT OF ATTACHMENT.



3" Winch Strap Assemblies

Breaking strength 16,200 lbs./7,363 kg.; WLL 5,400 lbs./2,452 kg. using 41632-14 Webbing



Part No. 41660-10-27
Part No. 41660-10-30

3-in. x 27-ft. Winch Strap w/41766-18 Flat Hook
3-in. x 30-ft. Winch Strap w/41766-18 Flat Hook



Part No. 41660-11-27
Part No. 41660-11-30

3-in. x 27-ft. Winch Strap w/45516-12 Delta Ring
3-in. x 30-ft. Winch Strap w/45516-12 Delta Ring



Part No. 41660-13-27
Part No. 41660-13-30

3-in. x 27-ft. Winch Strap w/43365-12 Grab Hook
3-in. x 20-ft. Winch Strap w/43365-12 Grab Hook



Part No. 41660-14-27
Part No. 41660-14-30

3-in. x 27-ft. Winch Strap w/43366-14 Chain Anchor
3-in. x 30-ft. Winch Strap w/43366-14 Chain Anchor

4" Winch Strap Assemblies

Breaking strength 16,200 lbs./7,363 kg.; WLL 5,400 lbs./2,454 kg. using 43797-12 Webbing



Part No. 43795-10-27
Part No. 43795-10-30

4-in. x 27-ft. Winch Strap w/41766-18 Flat Hook
4-in. x 30-ft. Winch Strap w/41766-18 Flat Hook



Part No. 43795-11-27
Part No. 43795-11-30

4-in. x 27-ft. Winch Strap w/41631-11 Delta Ring
4-in. x 30-ft. Winch Strap w/41631-11 Delta Ring



Part No. 43795-13-27
Part No. 43795-13-30

4-in. x 27-ft. Winch Strap w/Half Twisted Loop
4-in. x 30-ft. Winch Strap w/Half Twisted Loop



Part No. 43795-14-27
Part No. 43795-14-30

4-in. x 27-ft. Winch Strap w/43365-12 Grab Hook
4-in. x 30-ft. Winch Strap w/43365-12 Grab Hook



Part No. 43795-15-27
Part No. 43795-15-30

4-in. x 27-ft. Winch Strap w/43366-14 Chain Anchor
4-in. x 30-ft. Winch Strap w/43366-14 Chain Anchor

Winch Strap Tip



Putting a half twist in a tiedown strap will reduce vibration and extend the life of the fabric.



Introducing Ancra **BLUE**—the ultimate in webbing strength and performance.

Ancra, well-known for high-performance cargo restraint products, has raised the bar with this new high-strength webbing.

This 24,000 lb. webbing dramatically improves facial abrasion resistance and gives webbing more body and firmness. Ancra BLUE also delivers 70% retained strength after 2,500 full cycles for a durability rating that is like everything else about this product—superior.

For added versatility, the flat hook strap is made with Ancra's



3.25-inch flat hook, which allows it to fit through any stake pocket, a rated anchor point, providing a stronger attachment location for even greater holding power.

The next time you require the industry's most durable, most wear-resistant winch strap, think blue, Ancra BLUE.

Breaking strength 16,200 lbs./7,363 kg.; WLL 5,400 lbs./2,454 kg. using 41632-33 Webbing



Part No. 43795-80-27

4-in. x 27-ft. Winch Strap w/41766-18 Flat Hook



Part No. 43795-80-30

4-in. x 30-ft. Winch Strap w/41766-18 Flat Hook



Part No. 43795-81-30

4-in. x 30-ft. Winch Strap w/41631-11 Delta Ring



Part No. 43795-83-30

4-in. x 30-ft. Winch Strap w/Half Twisted Loop

Part No. 43795-85-30

4-in. x 30-ft. Winch Strap w/43366-14 Chain Anchor

Custom lengths and webbing configurations available (loops for bolts).

Roll-On/Roll-Off Container Straps



Part No. 49526-10

4-in. x 5-ft. Strap with 48968-11 Container Hook
Working Load Limit: 5,400 lbs./2,454 kg.

Here's the easy way to secure roll-on and roll-off containers during transit. Ancra container straps are compatible with all standard roll-on/roll-off containers and meet FMCSA Regulation Section 393.134 Sect. (3).

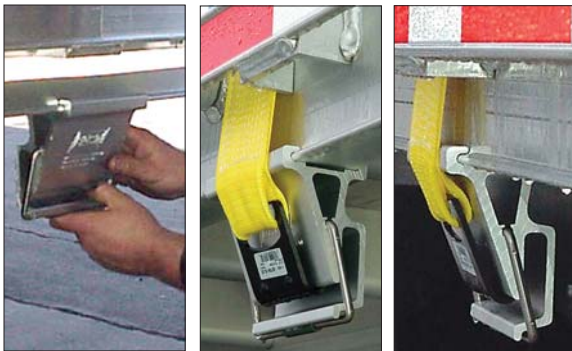


GLIDELOCK[®] Sliding Load-Securement Bracket

Sliding Load-Securement Bracket

Ankra presents GlideLock, an efficient and economical way to meet the latest Federal Motor Carrier Safety Administration (FMCSA) standards for fleets operating flatbed trailers with either, trailer rails, double L track or standard C winch track.

As the name implies, it glides into any position along the trailer rail or winch track to ensure the correct pull-angle for securing the cargo, while keeping the strap inboard of the rub rails and fastened against coming loose as the standard requires. Once in place, it locks the winch straps in place for safe securement of the load. It works with any standard flat hook strap.



GlideLock is the economical way to bring your fleet into compliance.

- Allows adjustable anchor points for flat hook winch straps.
- Captures the flat hook on winch straps.
- Attaches to double L track (49242-10-120) or Ankra standard winch track (42357-11 or -21). See page 5 and 7 for slider winches and track.
- Meets new FMCSA standards for cargo securement regarding rub rails.
- 5,400 lbs. Working Load Limit, 16,200 lbs. Breaking Strength
- Corrosion resistant 6,000 series aluminum alloy T-6

GlideLock works in four easy steps.

1. Slide the unit onto the trailer rails or winch track.
2. Glide it to the correct position to insure a correct pull-angle.
3. Release the keeper to allow the flat hook to engage the GlideLock.
4. Secure the keeper to lock the flat hook in position. Once in place, the hook can't shift or come undone. Ideal for trailers equipped with trailer rails, double L track or standard C winch track and slider winches.

Part No. 49527-10 GlideLock for Double L Track

Breaking Strength: 16,200 lbs./7,348 kg.

Working Load Limit: 5,400 lbs./2,449 kg.

Weight: 4.50 lbs./2.04 kg.

Part No. 49527-13 GlideLock for Standard C Winch Track

Breaking Strength: 16,200 lbs./7,348 kg.

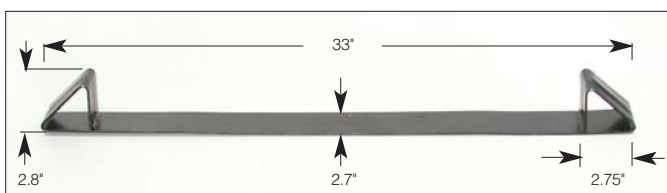
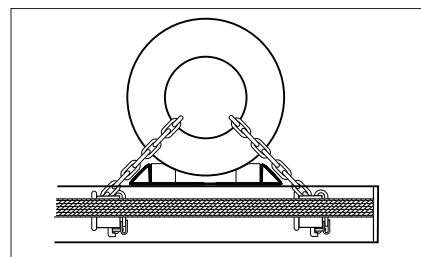
Working Load Limit: 5,400 lbs./2,449 kg.

Weight: 4.50 lbs./2.04 kg.

Coil Rack

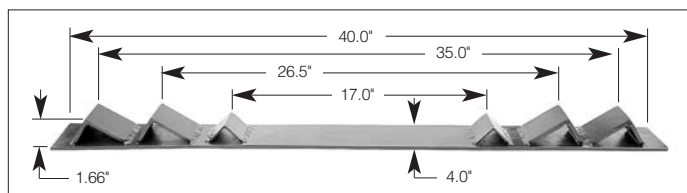
Our coil racks are of one-piece construction for extra support, handling both heavy and light duty applications. Used with lumber blocks which provide extra cradling of the coils. Both have a black lacquer finish.

New D.O.T. standards specifically address securement of metal coils. If chocks are used, they must be held in place by coil bunks or racks to prevent them from coming loose.



Light Duty

Part No. 49344-10 Weight: 5.7 lbs./2.60 kg., Metal Gauge: 10



Heavy Duty 1/4" steel sheet per ASTM A36

Part No. 49344-12 Weight: 15.63 lbs./7.09 kg.



Chain & Binders

Ankra Chain Load Binders are all steel, drop-forged, and meet FMCSA and DOT specifications. Versatile and adjustable, these load binders offer heavy-duty transport securement. All are Grade 70 short link transport chain and meet the standards for welded steel chain as specified by the National Association of Chain Manufacturers (NACM).



Chain Assemblies with Clevis Hooks

- Part No. 45881-10-16** 5/16-in. x 16-ft. Working Load Limit: 4,700 lbs. Weight: 17.40 lbs./7.89 kg.
- Part No. 45881-10-20** 5/16-in. x 20-ft. Working Load Limit: 4,700 lbs. Weight: 21.70 lbs./9.90 kg.
- Part No. 45881-10-25** 5/16-in. x 25-ft. Working Load Limit: 4,700 lbs. Weight: 26.70 lbs./12.10 kg.
- Part No. 45881-11-16** 3/8-in. x 16-ft. Working Load Limit: 6,600 lbs. Weight: 17.80 lbs./8.07 kg.
- Part No. 45881-11-20** 3/8-in. x 20-ft. Working Load Limit: 6,600 lbs. Weight: 22.20 lbs./10.10 kg.
- Part No. 45881-11-25** 3/8-in. x 25-ft. Working Load Limit: 6,600 lbs. Weight: 27.20 lbs./12.40 kg.
- Part No. 45881-13-20** 1/2-in. x 20-ft. Working Load Limit: 11,300 lbs. Weight: 53.60 lbs./24.31 kg.
- Part No. 45881-13-25** 1/2-in. x 25-ft. Working Load Limit: 11,300 lbs. Weight: 66.20 lbs./30.01 kg.



Chain also available in bulk

- Part No. 45880-10** 5/16-in, 400-ft length Weight: 408 lbs./185 kg.
- Part No. 45880-11** 3/8-in, 200-ft length Weight: 248 lbs./112 kg.
- Part No. 45880-13** 1/2-in, 100-ft length Weight: 251 lbs./114 kg.



Clevis Hook (for hook dimensions see page 48)

- Part No. 45946-10** 5/16" Clevis Hook Weight: .85 lb./39 kg.
- Part No. 45946-11** 3/8" Clevis Hook Weight: 1.10 lbs./50 kg.
- Part No. 45946-13** 1/2" Clevis Hook Weight: 2.29 lbs./1.04 kg.



Lever Chain Load Binder

- Part No. 45943-10** 5/16-in. Load Binder with Lever Working Load Limit: 5,400 lbs. Accepts chain from 5/16-in. up to 3/8-in. Weight: 8.0 lbs./3.64 kg.
- Part No. 45943-11** 3/8-in. Load Binder with Lever Working Load Limit: 9,200 lbs. Accepts chain from 3/8-in. up to 1/2-in. Weight: 13.0 lbs./5.91 kg.
- Part No. 45943-13** 1/2-in. Load Binder with Lever Working Load Limit: 13,000 lbs. Accepts chain from 1/2-in. up to 5/8-in. Weight: 19.6 lbs./8.9 kg.



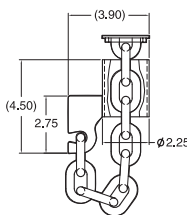
Recoilless Chain Load Binder w/Lever

- Part No. 45943-14** 5/16-in. Load Binder with Lever Working Load Limit: 5,400 lbs. Accepts chain from 5/16-in. up to 3/8-in. Weight: 9.25 lbs./4.21 kg.



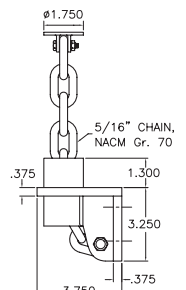
Ratchet Chain Load Binder

- Part No. 45943-20** 5/16-in. Load Binder with Ratchet Working Load Limit: 5,400 lbs. Accepts chain from 5/16-in. up to 3/8-in. Weight: 11.0 lbs./5.0 kg.
- Part No. 45943-21** 3/8-in. Load Binder with Ratchet Working Load Limit: 9,200 lbs. Accepts chain from 3/8-in. up to 1/2-in. Weight: 13.5 lbs./6.14 kg.
- Part No. 45943-23** 1/2-in. Load Binder with Ratchet Working Load Limit: 13,000 lbs. Accepts chain from 1/2-in. up to 5/8-in. Weight: 14.3 lbs./6.5 kg.



Floor Chain Tiedown

- Part No. 49345-10** Breaking Strength: 18,000 lbs. Working Load Limit: 6,000 lbs. Weight: 5.60 lbs./2.55 kg.
- Part No. 49583-10** Breaking Strength: 18,000 lbs. Working Load Limit: 6,000 lbs. Weight: 5.25 lbs./2.38 kg.





Engineered for strength and durability, Ancra ratchet buckle strap assemblies set the industry standard. The integrity of our patented ratchet buckles set these assemblies apart from the rest. A complete line of Ancra's standard and heavy-duty assemblies and accessories can meet all of your specific requirements.

Our ratchet buckle strap assemblies offer:

- Custom lengths with a range of end hardware for wide ranging applications
- Compliance with current Department of Transportation (DOT), California Highway Patrol (CHP) and WSTDA T-1 Standards
- Webbing meets or exceeds WSTDA T-4 standards

2" Ratchet Buckle Straps using 41632-13 webbing with Long-Wide Handle Ratchet Buckle 44587-10

Breaking Strength Capacity: 10,000 lbs./4,545 kg. Working Load Limit: 3,333 lbs./1,515 kg.

Standard Flat Hook



- 45982-10** 27-ft. Ratchet Strap w/40891-18 Flat Hooks
- 45982-11** 30-ft. Ratchet Strap w/40891-18 Flat Hooks

Delta Ring



- 45982-16** 27-ft. Ratchet Strap w/40978-11 Delta Rings
- 45982-35** 30-ft. Ratchet Strap w/40978-11 Delta Rings

Grab Hook Anchor



- 45982-14** 27-ft. Ratchet Strap w/43365-12 Grab Hooks
- 45982-33** 30-ft. Ratchet Strap w/43365-12 Grab Hooks

Chain Anchor



- 45982-15** 27-ft. Ratchet Strap w/43366-12 Chain Anchors
- 45982-34** 30-ft. Ratchet Strap w/43366-12 Chain Anchors

Snap Hook



- 45982-19** 27-ft. Ratchet Strap w/40758-11 Twisted Snap Hooks
- 45982-36** 30-ft. Ratchet Strap w/40758-11 Twisted Snap Hooks

Wire Hook



- 45982-42** 27-ft. Ratchet Strap w/43120-13 Wire Hooks
- 45982-43** 30-ft. Ratchet Strap w/43120-13 Wire Hooks



Ratchet Strap Assemblies

2" Ratchet Buckle Straps using 41632-13 Webbing with Short-Wide Handle Ratchet Buckle 47105-11

Flat Hook



Breaking Strength Capacity: 10,000 lbs./4,545 kg.
Working Load Limit: 3,333 lbs./1,515 kg.

Part No. 47970-10
27-ft. Ratchet Strap w/40891-18 Flat Hooks

Part No. 47970-11
30-ft. Ratchet Strap w/40891-18 Flat Hooks

2" Ratchet Buckle Straps using 41632-13 Webbing with Standard Handle Ratchet Buckle 44627-11

Flat Hook



Breaking Strength Capacity: 10,000 lbs./4,545 kg.
Working Load Limit: 3,333 lbs./1,515 kg.

Part No. 47971-10
27-ft. Ratchet Strap w/40891-18 Flat Hooks

Part No. 47971-11
30-ft. Ratchet Strap w/40891-18 Flat Hooks

3" Ratchet Buckle Straps using 41632-14 Webbing with Ratchet Buckle 48965-10

Flat Hook



Breaking Strength Capacity: 15,000 lbs./6,818 kg.
Working Load Limit: 5,000 lbs./2,272 kg.

Part No. 48987-20
27-ft. Ratchet Strap w/41766-18 Flat Hooks

Part No. 48987-21
30-ft. Ratchet Strap w/41766-18 Flat Hooks

Grab Hook



Breaking Strength Capacity: 15,000 lbs./6,818 kg.
Working Load Limit: 5,000 lbs./2,272 kg.

Part No. 48987-22
27-ft. Ratchet Strap w/43365-12 Grab Hooks

Part No. 48987-23
30-ft. Ratchet Strap w/43365-12 Grab Hooks

Chain Anchor

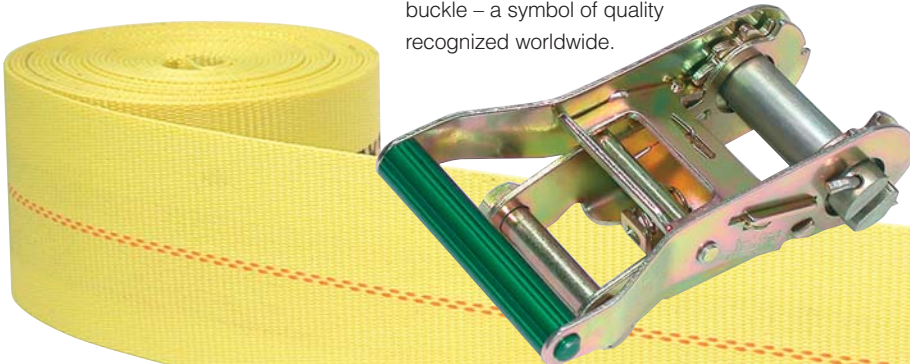


Breaking Strength Capacity: 15,000 lbs./6,818 kg.
Working Load Limit: 5,000 lbs./2,272 kg.

Part No. 48987-24
27-ft. Ratchet Strap w/43366-14 Chain Anchors

Part No. 48987-25
30-ft. Ratchet Strap w/43366-14 Chain Anchors

Ancra's green handle ratchet buckle – a symbol of quality recognized worldwide.



All Ancra ratchet straps and replacement straps shown (pages 17-19) use 6,000 lbs. per inch, double line webbing to insure full WLL capacity.





4" Ratchet Buckle Straps using 4" polyester webbing with Ratchet Buckle 49349-10

Flat Hook



Breaking Strength Capacity: 16,200 lbs./7,363 kg.
Working Load Limit: 5,400 lbs./2,454 kg.

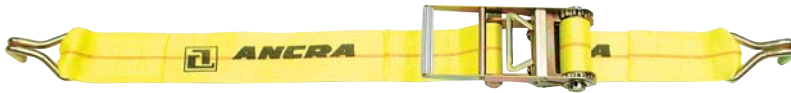
Part No. 49346-10

27-ft. Ratchet Buckle Strap w/41766-18 Flat Hooks

Part No. 49346-11

30-ft. Ratchet Buckle Strap w/41766-18 Flat Hooks

Wire Hook



Breaking Strength Capacity: 20,000 lbs./9,090 kg.
Working Load Limit: 6,666 lbs./3,030 kg.

Part No. 49346-12

27-ft. Ratchet Buckle Strap w/43120-20 Narrow Wire Hooks

Part No. 49346-13

30-ft. Ratchet Buckle Strap w/43120-20 Narrow Wire Hooks

Chain Anchor



Breaking Strength Capacity: 16,200 lbs./7,363 kg.
Working Load Limit: 5,400 lbs./2,454 kg.

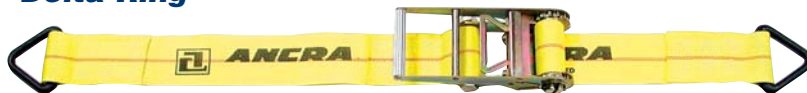
Part No. 49346-14

27-ft. Ratchet Buckle Strap w/43366-14 Chain Anchor

Part No. 49346-15

30-ft. Ratchet Buckle Strap w/43366-14 Chain Anchor

Delta Ring



Breaking Strength Capacity: 20,000 lbs./9,090 kg.
Working Load Limit: 6,666 lbs./3,030 kg.

Part No. 49346-16

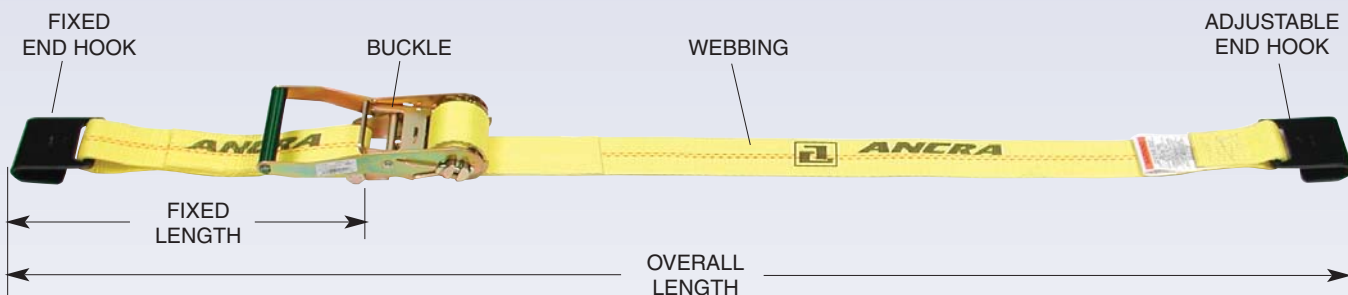
27-ft. Ratchet Buckle Strap w/41631-11 Delta Ring

Part No. 49346-17

30-ft. Ratchet Buckle Strap w/41631-11 Delta Ring

ANATOMY OF A RATCHET STRAP

Length: The distance between extreme end bearing points of the web tiedown assembly, including the fittings. Standard fixed end length is 18" (33" for chain anchor straps). This puts ratchet in optimum position on side of trailer for driver tensioning. Handholds are typically 6" in length and can be sewn to prevent the webbing from sliding back through the buckle or winch.



To make sure Ancra quality is delivered to the customer intact, our strap assemblies are individually banded, load bars are shipped on custom pallets and shipping cartons are 275 lbs. test.



To prevent unrated strap assemblies, Ancra uses high-quality fabric warning labels that are durable and tear-resistant.



Ratchet Strap Replacements



Flat Hook



Wire Hook



Chain Anchor



Grab Hook



Delta Ring

For 2"x27' & 2"x30' Ratchet Strap Assemblies

Part No.	Description	Replacement for:
48922-10	2" x 18" Fixed end strap w/40891-18 Flat hook & loop end	45982-10 & -11, 47970-10 & -11, 47971-10 & -11
48922-13	2" x 18" Fixed end strap w/43120-13 Wire hook & loop end	45982-42 & -43
49347-10	2" x 18" Fixed end strap w/40891-18 Flat hook & 44587-10 Buckle	45982-10 & -11
49347-19	2" x 18" Fixed end strap w/43120-13 Wire hook & 44587-10 Buckle	45982-42 & -43
49347-11	2" x 25' Adjustable end strap w/40891-18 Flat hook	45982-10, 47970-10, 47971-10
49347-20	2" x 25' Adjustable end strap w/43120-13 Wire hook	45982-42
49347-12	2" x 28' Adjustable end strap w/40891-18 Flat hook	45982-11, 47970-11, 47971-11
49347-21	2" x 28' Adjustable end strap w/43120-13 Wire hook	45982-43

For 3"x27' & 3"x30' Ratchet Strap Assemblies

48922-11	3" x 18" Fixed end strap w/41766-18 Flat hook & loop end	48987-20 & -21
48922-17	3" x 33" Fixed end strap w/43366-14 Chain anchor & loop end	48987-24 & -25
48922-20	3" x 18" Fixed end strap w/43365-12 Grab hook & loop end	48987-22 & -23
49347-13	3" x 18" Fixed end strap w/41766-18 Flat hook & 48965-10 Buckle	48987-20 & -21
49347-31	3" x 33" Fixed end strap w/43366-14 Chain anchor & 48965-10 Buckle	48987-24 & -25
49347-40	3" x 18" Fixed end strap w/43365-12 Grab hook & 48965-10 Buckle	48987-22 & -23
49347-14	3" x 25' Adjustable end strap w/41766-18 Flat hook	48987-20
49347-32	3" x 25' Adjustable end strap w/43366-14 Chain anchor	48987-24
49347-41	3" x 25' Adjustable end strap w/43365-12 Grab hook	48987-22
49347-15	3" x 28' Adjustable end strap w/41766-18 Flat hook	48987-21
49347-33	3" x 28' Adjustable end strap w/43366-14 Chain anchor	48987-25
49347-42	3" x 28' Adjustable end strap w/43365-12 Grab hook	48987-23

For 4"x27' & 4"x30' Ratchet Strap Assemblies

48922-12	4" x 18" Fixed end strap w/41766-18 Flat hook & loop end	49346-10 & -11
48922-15	4" x 18" Fixed end strap w/43120-20 Wire hook & loop end	49346-12 & -13
48922-18	4" x 33" Fixed end strap w/43366-14 Chain anchor & loop end	49346-14 & -15
48922-24	4" x 18" Fixed end strap w/41631-11 Delta ring & loop end	49346-16 & -17
49347-16	4" x 18" Fixed end strap w/41766-18 Flat hook & 49349-10 Buckle	49346-10 & -11
49347-25	4" x 18" Fixed end strap w/43120-20 Wire hook & 49349-10 Buckle	49346-12 & -13
49347-34	4" x 33" Fixed end strap w/43366-14 Chain anchor & 49349-10 Buckle	49346-14 & -15
49347-52	4" x 18" Fixed end strap w/41631-11 Delta ring & 49349-10 Buckle	49346-16 & -17
49347-17	4" x 25' Fixed end strap w/41766-18 Flat hook	49346-10
49347-26	4" x 25' Adjustable end strap w/43120-20 Wire hook	49346-12
49347-35	4" x 25' Adjustable end strap w/43366-14 Chain anchor	49346-14
49347-53	4" x 25' Adjustable end strap w/41631-11 Delta ring	49346-16
49347-18	4" x 28' Adjustable end strap w/41766-18 Flat hook	49346-11
49347-27	4" x 28' Adjustable end strap w/43120-20 Wire hook	49346-13
49347-36	4" x 28' Adjustable end strap w/43366-14 Chain anchor	49346-15
49347-54	4" x 28' Adjustable end strap w/41631-11 Delta ring	49346-17

IT IS THE OWNER'S AND USER'S RESPONSIBILITY TO DETERMINE SUITABILITY OF A PRODUCT FOR ANY PARTICULAR USE. REMEMBER, ALL STRAP ASSEMBLIES OR SYSTEMS ARE AS STRONG AS THEIR WEAKEST COMPONENT INCLUDING THE POINT OF ATTACHMENT.