



Phantom™ Tensioned Sports Cage Installation Instructions

Thank you for your recent purchase of the *Phantom™ Tensioned Sports Cage System!*

Before beginning the installation, double-check that all necessary parts listed below have arrived with your shipment. Please note that parts may have shipped in multiple packages.

Parts List:

- (1) Phantom™ Tensioned Sports Cage with three (3) top tensioning cables attached
- (3) 2:1 Tensioning Assemblies with black nylon tensioning halyards
- (3) Reach Poles

Hardware may also include one or both of the following depending on your wall span:

- (3) Intermediate Cables
 - included only if wall span is over 69' for a 55' cage, or 84' for a 70' cage
- (3) Anchoring Cables (short-span systems only)
 - included only if difference between wall span and cage length is less than 12 ft.

Additional Parts Required (must be supplied by customer):

- (6) 3/8" steel eyebolts
- (6) wall anchors to receive 3/8" eyebolts rated to support a minimum of 250-lbs.

Tools Required for Initial Set-up:

- pliers
- step ladder
- drill

Initial Set-Up:

1. Determine which wall in your facility to define as the Tensioning Wall and which to define as the Anchoring Wall (see Figures 1-1 and 2-1, or 2-2 for Short-Span Systems). The Tensioning Wall will have the 2:1 Tensioning Assemblies attached to it with tensioning halyards hanging down to the floor. These halyards can be gathered and pulled to the side, or lifted and hung out of reach if needed. This should be taken into consideration so as to avoid interfering with doorways, windows, stage openings, etc.
2. For the initial set-up, position and install the appropriate wall anchors and eyebolts according to the manufacturer's directions as shown in Figure 1-1 prior to attaching the tensioning hardware. Be sure to account for any adjustment needed to the mounting height on the Tensioning Wall as noted in the chart at the bottom of Figure 1-1 – this is based on your wall span.
3. Once all eyebolts are installed, attach one Tensioning Block to each eyebolt on the Tensioning Wall by unscrewing the clevis pin to remove the clevis (see Inset "A" on Figure 2-1). You may need pliers to loosen the pin initially. Hang the clevis onto the eyebolt, re-insert the pin to attach the Tensioning Block, and tighten by hand. Make one last 1/4 turn with the pliers to ensure it is secure.
4. While holding onto the bit clip at the end of the 2:1 Tensioning Assembly, pull the Tensioning Halyard down towards the floor. Be sure it is not engaged in the cam-lock and can move freely through the Tensioning Block. Attach the bit clip to the Tensioning Halyard itself on the **LOWER** side of the knot that is located 9 feet from the end of the halyard. The bit clip should be attached here and the 2:1 Tensioning Assembly stored in this fashion at all times when not in use. This is done to prevent the bit clip from accidentally drawing back up to the Tensioning Block and out of reach. The knot has been intentionally placed in the Tensioning Halyard for you for the same purpose – to prevent the end of the halyard from sliding up and out of reach. Repeat Steps 3-4 for each of the other eyebolts on the Tensioning Wall.

This completes the Initial Set-Up.

You are now ready to attach your *Phantom™ Tensioned Sports Cage System!*

Cage Attachment Procedure:

If you received Anchoring Cables with your shipment (these would have been shipped already attached to the Reach Poles as shown in Fig. 2-2), proceed to the section entitled “**Short-Span Anchoring Wall Attachment**”.

If you did not receive Anchoring Cables with your shipment, proceed to the next section entitled “**Standard Anchoring Wall Attachment**”.

Standard Anchoring Wall Attachment:

1. Lay the cage net out and stretch it across the floor with the steel rings extended towards each wall. The three Tensioning Cables should be left resting on top.
2. Extend the Reach Poles to full length and lock in place (see Figure 3-1). Connect the hook end of one Reach Pole to an eyebolt on the Anchoring Wall (see Figure 2-1). Repeat this step for each of the three Reach Poles.

This step should be done from the ground - no ladders are required!

3. Attach the bit clip on the end of each Reach Pole to the steel ring on the end of the appropriate corresponding Tensioning Cable on the net.

This completes the necessary attachments at the Anchoring Wall. Proceed to the section entitled, “**Tensioning Wall Attachment (all systems)**”.

Short-Span Anchoring Wall Attachment:

1. Lay the cage net out and stretch it across the floor with the steel rings extended towards each wall. The three Tensioning Cables should be left resting on top.
2. Extend the Reach Poles to full length and lock in place (see Figure 3-1). Attach the bit clip on the end of each Anchoring Cable to the steel ring on the end of the appropriate corresponding Tensioning Cable on the net.
3. Connect the hook end of one Reach Pole to the correct corresponding eyebolt on the Anchoring Wall (see Figure 2-2). You may need assistance from another person to help gather and hold up the netting, which will alleviate some of the weight being lifted. Repeat this step for each of the three Reach Poles.

This step should be done from the ground - no ladders are required!

This completes the necessary attachments at the Anchoring Wall. Proceed to the section entitled, “**Tensioning Wall Attachment (all systems)**”.

Tensioning Wall Attachment (all systems):

1. If included, attach one Intermediate Cable to each of the steel rings on the ends of the Tensioning Cable nearest the Tensioning Wall (see Fig. 2-1). Please remember, not all systems include Intermediate Cables. If your system does not include Intermediate Cables, you can skip this step and proceed to the next.
2. Unhook the bit clip on the end of each 2:1 Tensioning Assembly from the halyard and attach it to the steel ring on the end of the appropriate corresponding Tensioning Cable (or Intermediate Cable, if included).
3. Grab the end of one of the Tensioning Halyards and pull straight down to hoist the cage up into position. As the cable tension increases, the halyard will slide into the cam-lock and be held in place automatically if/when the halyard is released. Be sure to pull the halyard straight down parallel with the wall to engage the cam-lock. If the angle with the wall is too great, the cam-lock may not engage properly. Repeat this step for each of the three halyards and adjust as necessary until desired tension* (cage height) is reached.

* Please Note: It is not necessary to put excessive tension on the system – it is designed to function properly even under minimal tension with as much as 24" of sag across the span.

After the initial installation of the 2:1 Tensioning Assemblies, the set-up time required for the Phantom™ Tensioned Sports Cage System should be less than 5 minutes from storage to hitting!

This completes the necessary attachments at the Tensioning Wall.

You are now ready to use your *Phantom™ Tensioned Sports Cage System!*

Cage Take-Down/Storage Procedure:

1. To lower and remove the cage, pull each Tensioning Halyard down and out away from the wall towards the cage slightly – this will disengage the cam-locks and free the halyards, allowing the cage to drop to the ground freely. Be sure to hold on to the halyards securely to prevent them from slipping through your hands uncontrollably.
2. Follow the set-up instructions in reverse to disconnect the cage and remove Reach Poles. Be sure to attach the bit clips on the ends of the 2:1 Tensioning Assemblies to the **LOWER** side of the knot on each Tensioning Halyard as previously mentioned. The halyards can be gathered and pulled to the side, or lifted and hung out of reach if needed.
3. When packing the net for storage, the goal is to avoid tangling the cables and losing the end rings, thereby simplifying set-up for the next use. Begin by bringing the three Tensioning Cables together. The easiest way to do this is to have one person at each end of the lowered cage. Each person collects the three cables and pulls tension between each other so that the cables run adjacent and parallel to one another.
4. Lay the cables down and push the sides of the cage inward until you have a full length row of net about two feet wide with the cables on top.
5. Place your storage container (such as the *Phantom™* Tensioned Sports Cage Storage Cart) near the middle of the net. Grabbing the net in the middle, carefully lift and place it down in the bottom of the container so as not to snag it on anything. Keep loading the net in from both sides equally until the entire cage is in the container and the three steel rings from each end of the cage are left hanging out opposite sides of the container's top opening.
6. To deploy the cage the next time, set the storage container in the middle of the designated cage area. Have two people each take one set of steel rings and pull the net out of the container as they walk toward opposite walls.

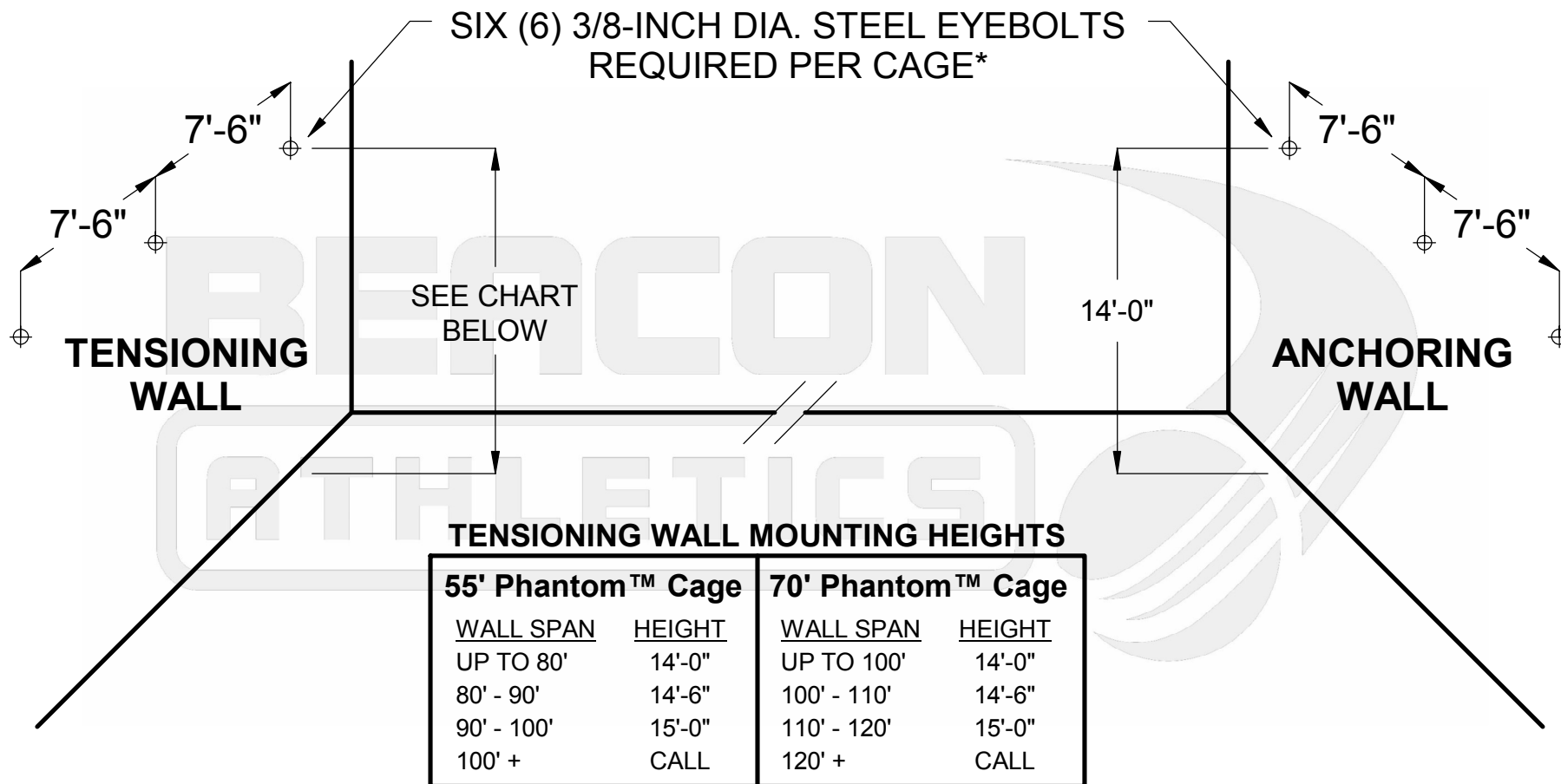
Thank you for your purchase of the *Phantom™* Tensioned Sports Cage System!

We hope you enjoy the simplicity and ease of use it provides.

Please feel free to contact our Customer Service Department at 1-800-747-5985 with any questions, comments, or feedback you may have.

FIGURE 1-1

WALL ANCHOR POSITIONING



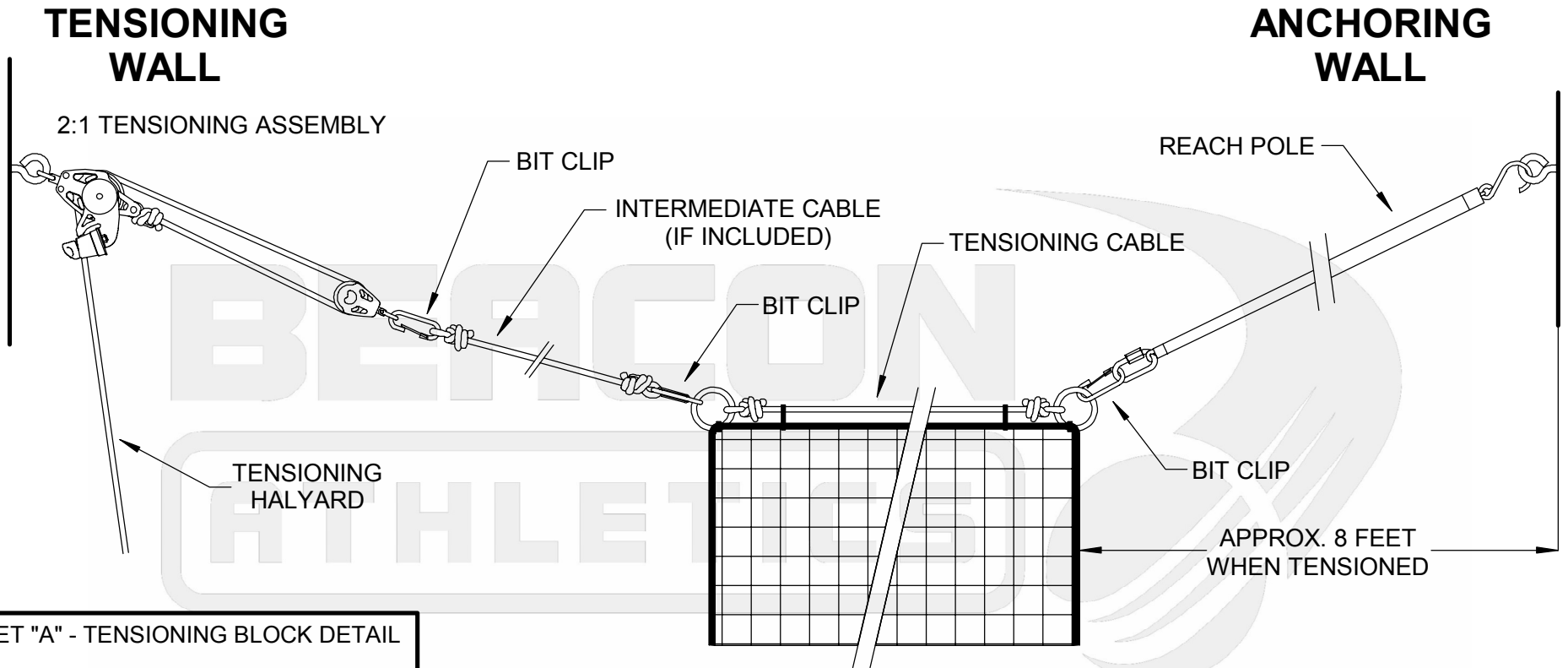
* EYEBOLTS AND WALL ANCHORS ARE NOT INCLUDED. IT IS THE RESPONSIBILITY OF THE END USER TO PROVIDE THE EYEBOLTS AND WALL ANCHORS APPROPRIATE FOR THEIR WALL CONDITION.

WALL ANCHORS MUST BE RATED TO SUPPORT A MINIMUM LOADING OF 250 LBS. AND SIZED TO RECEIVE A 3/8" THREADED EYEBOLT.

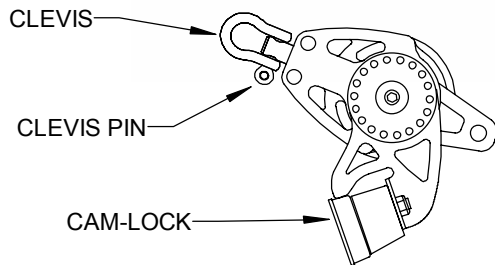


FIGURE 2-1

STANDARD ATTACHMENT DETAIL



INSET "A" - TENSIONING BLOCK DETAIL

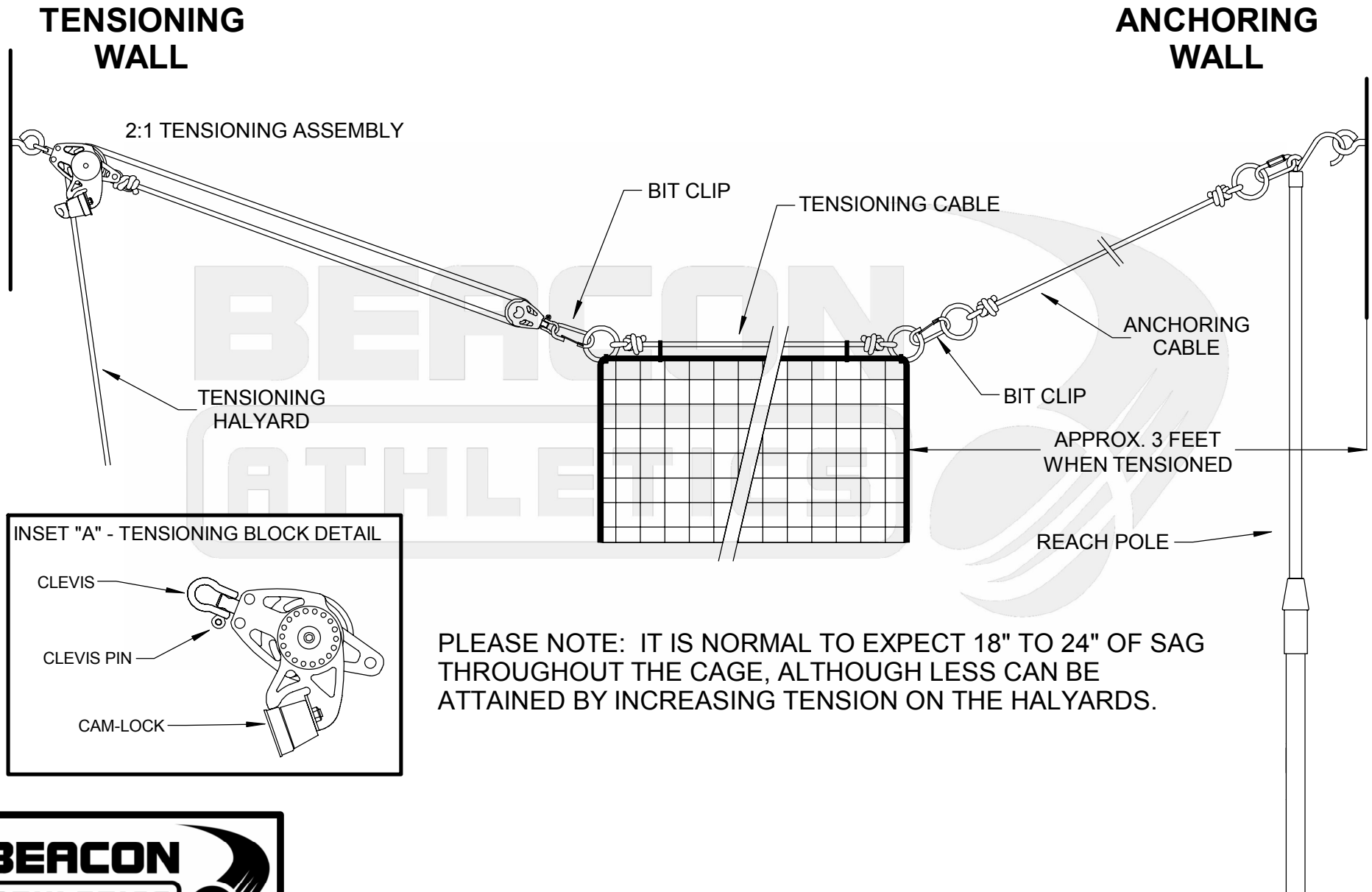


PLEASE NOTE: IT IS NORMAL TO EXPECT 18" TO 24" OF SAG THROUGHOUT THE CAGE, ALTHOUGH LESS CAN BE ATTAINED BY INCREASING TENSION ON THE HALYARDS.

INTERMEDIATE CABLES ARE INCLUDED FOR SPANS OVER 69' FOR A 55' CAGE AND 84' FOR A 70' CAGE.

FIGURE 2-2

SHORT-SPAN ATTACHMENT DETAIL



PLEASE NOTE: IT IS NORMAL TO EXPECT 18" TO 24" OF SAG THROUGHOUT THE CAGE, ALTHOUGH LESS CAN BE ATTAINED BY INCREASING TENSION ON THE HALYARDS.



FIGURE 3-1

REACH POLE INSTRUCTIONS



REACH POLE SHORTENED FOR STORAGE



USE TWIST-LOCK TO SECURE POLE POSITION FOR STORAGE/USE

REACH POLE EXTENDED FOR USE

