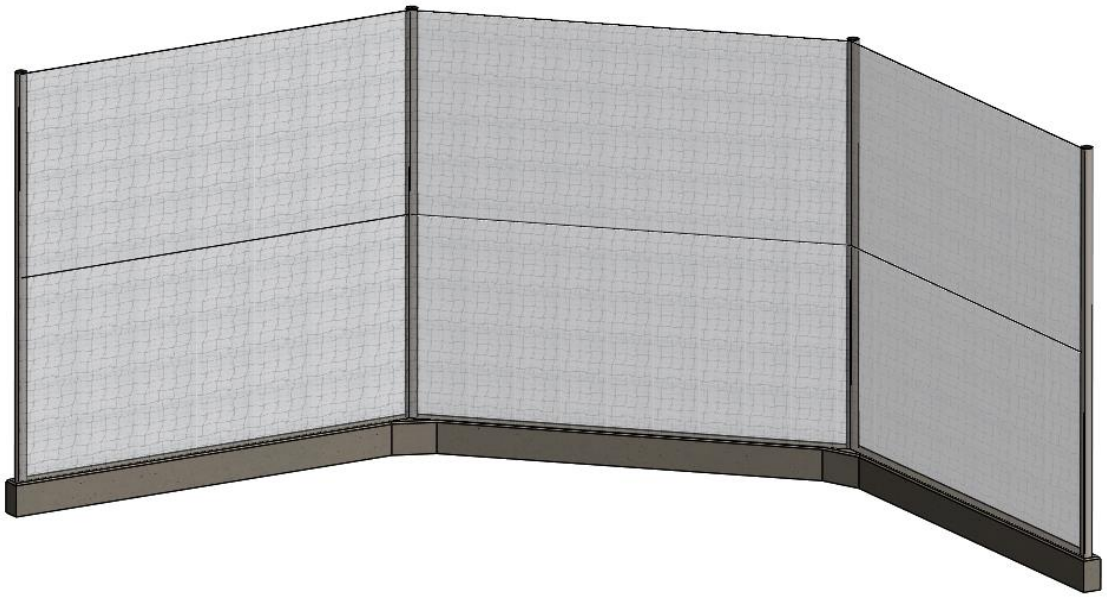
TNPP - Pole to Pole Tensioned Backstop Netting System Installation Instructions



1. Setting Poles

Direct Embedment:

a) After determining the location and height of each pole, prepare holes according to the foundation design. Refer to design drawings, project specifications, and/or local building codes for exact foundation dimensions, as local soil conditions will vary.

b) Use the lifting tab at the top of the pole to lift the pole into position. The lifting tab will be a single hole tab on the opposite side of the pole from the double hole tabs.

c) Secure pole and embed in concrete foundation according to design. Position pole such that tabs face out towards the field in the appropriate orientation.

d) Repeat for all poles.

Plate Mount:

a) Mark the locations of the poles on the field.

b) Excavate hole for foundation and set a concrete form centered with pole position. Refer to design drawings, project specifications, and/or local building codes for exact foundation dimensions, as local soil conditions will vary.

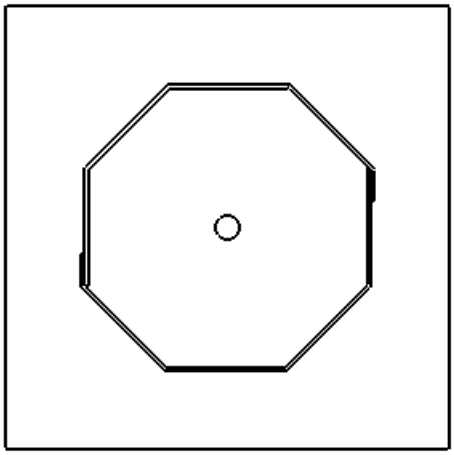
c) Set threaded anchors and provided aluminum leveling plate with the concrete. The anchors must be positioned such that the tabs on the poles face out towards the field in the appropriate orientation.

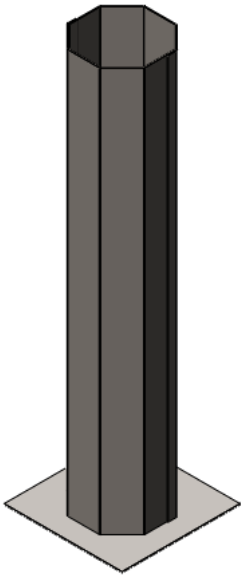
d) Allow concrete foundation to fully cure.

e) After anchors are set and level in the appropriate orientation, use the lifting tab at the top of the pole to lift the pole into position. The lifting tab will be a single hole tab on the opposite side of the pole from the double hole tabs. Fasten baseplate and pole using the provided hardware. Adjust as necessary to ensure that plate is level and secure.

f) Repeat procedure for all poles.

Ground Sleeve Install (Optional)





1. Mark the locations of the ground sleeves on the field. Being sure to match the center distance to the desired system.

2. Excavate holes for foundations and set the concrete forms.

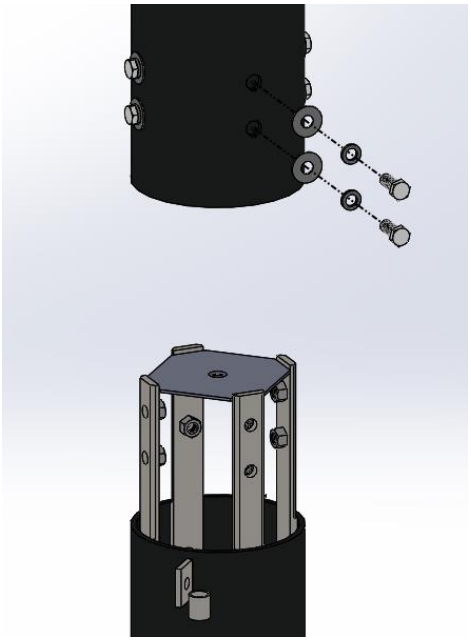
3. Center the ground sleeve in the form and secure it in a plumb and level position. The top of the ground sleeve should be set according to the site plans (Generally level with Finish Grade).

4. Pour concrete foundation to the top of the sleeve. Allow concrete to adequately cure.

5. Caulk all around the top of the ground sleeve, using backer rod where needed to prevent the caulk from falling into the ground sleeve.

6. After the pole is installed, fill ground sleeve with non-shrink grout (provided by others).

Pole Assembly (Optional)



1. Slide Top Pole onto Lower Pole, using lifting tabs, aligning bolt holes in pipe.

2. Install all (4) bolts with Flat & Lock Washers, finger tight as pictured in Figure 4.

3. Tighten all bolts (500ft/lbs.) maintaining alignment of pole sections.

2. Assembling Hardware

a) Start by laying out the cables to ensure the proper lengths are present for each run. Cut the cable as necessary based on each run, adding a 6” turn back at each end of the cable.

b) Start the horizontal tensioned cables (5/16” DIA) by assembling a 5/8” x 12” turnbuckle to an eye bolt at one end (Figure 1). The wire will pass through the poles at which the cable run does not terminate (Figure 2). At the poles where the cable run terminates, attach the cable with turn back and rope clips directly to the eye bolt at opposite end (Figure 3).

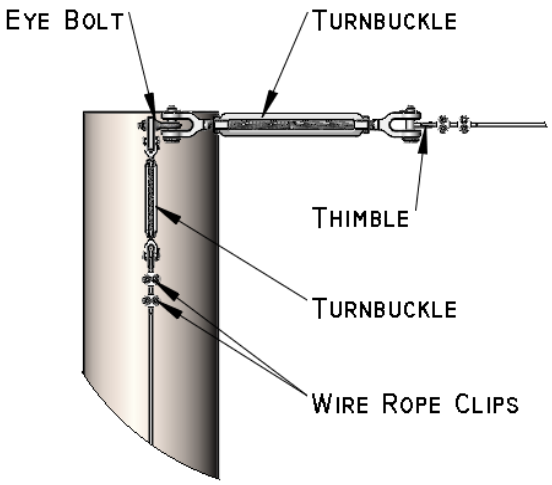


Figure 1

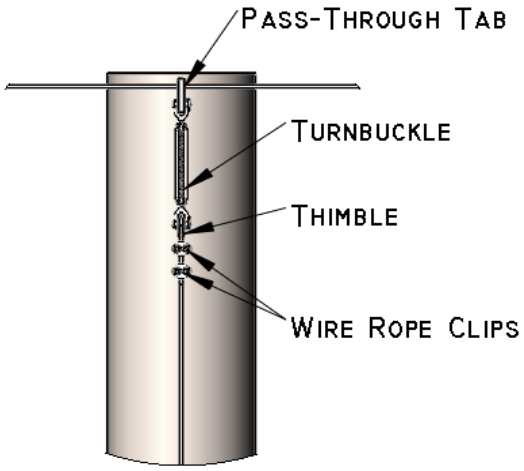


Figure 2

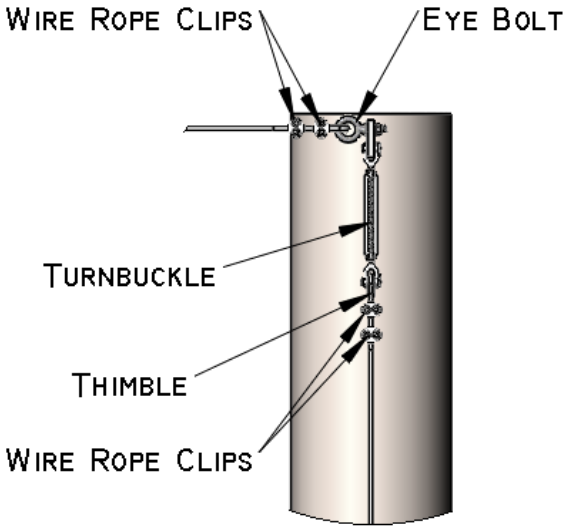


Figure 3

c) The horizontal cables can be finished with the bottom (1/4" DIA) cable. This cable is assembled the same way as the tensioned cables. Start the cable by attaching to an eye bolt at one end (Figure 4). The cable will pass through a series of eye bolts (recommended 5' spacing) or equivalent guides, then through the poles at which the cable run does not terminate (Figure 5). At the end pole where the cable run terminates, attach the cable (with turn back and rope clips) directly to the eye bolt (Figure 6).

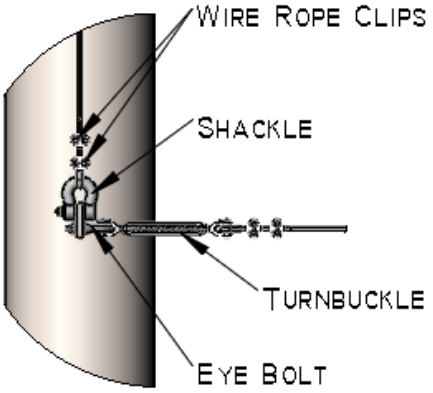


Figure 4

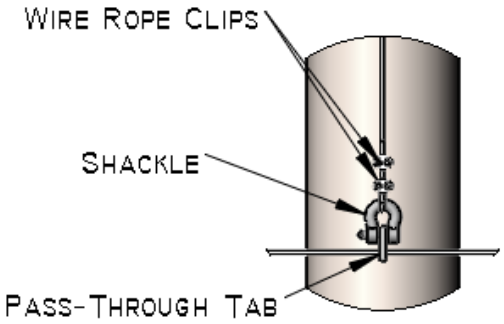


Figure 5

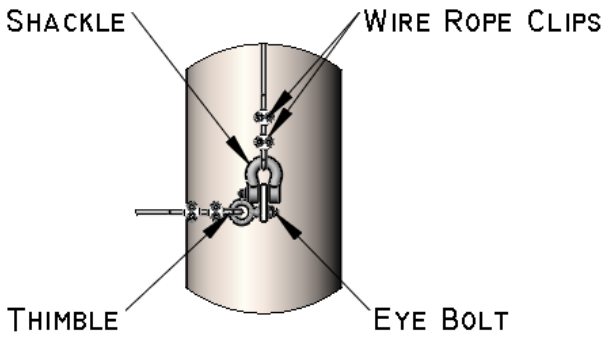


Figure 6

d) Vertical cables (1/4” DIA) can be done the same way as the tensioned cables, with a 1/2” x 9” turnbuckle at the top of the pole (Figure 7) and a heavy-duty shackle at the bottom of the pole (Figure 9). Make sure to thread the vertical cables through the guide tube (Figure 8).

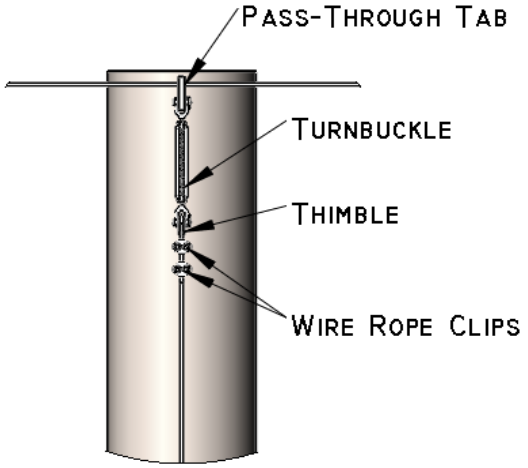


Figure 7

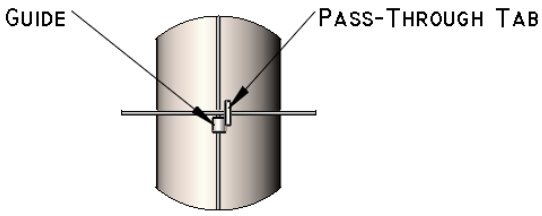


Figure 8

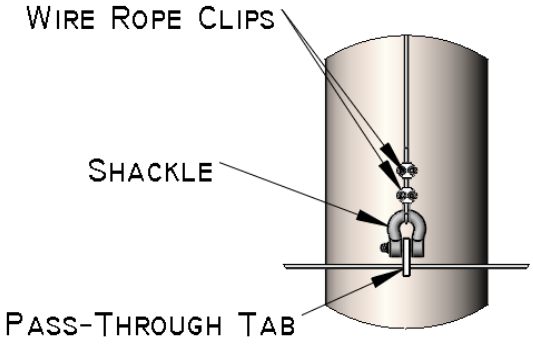


Figure 9

e) Once all of the cables have been mounted on the poles, tension the horizontal and vertical cables with the turnbuckles. Do not tighten turnbuckles so much that the poles themselves deflect.

f) Now the nets can be hung from the assembled cables. Using the zip-ties, pull the net to the top, each side cable, the remaining horizontal cables and then the bottom cable. Finally, the net can be secured to the cables using the supplied braided rope, looping through each square of the net binding and around the cable (Figure 10). For Ultra Cross netting systems, it's important to leave excess material along the net perimeter (i.e. no short tag ends and a minimum of one extra square) so that the net intersection doesn't fail prematurely.

g) After net is installed, hang the provided laminated warning signs at the bottom corner of either side of each netting panel using (4) Zip Ties on each sign.

Figure 10

SSI tension netting system poles are designed to strength, not deflection. As a result, some deflection will occur during installation and should be considered normal. Deflection may also be evident in calm conditions, particularly on the outer most poles of a given tension netting system.

REPLACEMENT PARTS

Contact Sportsfield Specialties Customer Service at 1-888-975-3343 for replacement hardware.

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