Fusion Wall Assembly Guide

Unlimited Sports Solutions

Designed for safety. Built for fun.

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Dear Valued Customer,

Thank you for your purchase of the *Fielders Choice* Team Dugout. We take great pride in providing the best sports construction products to help you enhance the athlete and fan experience at your facility. This guide is a comprehensive step by step instruction manual to assist you in erecting your new dugouts. Assembly is simple but if you encounter problems during construction, please call us at 531-207-9331 Monday-Friday 8-5pm CST.

Included in this guide:

- Tools Required..... 3
- Parts List..... 3
- Legend 4
- Site & Assembly Preparation..... 4
- Poles Installation..... 5
- Hardware (cabling & rails)..... 6
- Padding & Windscreen..... 7

Tools Required

- ⇒ String Line, Tape Measure & Level
- ⇒ Auger (large enough for 9” hole)
- ⇒ Impact drill 1/4” drill bit
- ⇒ Step bit
- ⇒ Bandsaw/Grinder
- ⇒ Drill with attachment for 1/4”-20 hex head strut bolt
- ⇒ Come Along
- ⇒ Recommended at least 2 personnel needed for assembly
- ⇒ Scissors/utility knife
- ⇒ Marking Paint

- ⇒ Parts List–(quantities vary based on length of fusion wall)
- ⇒ Posts
- ⇒ Unistrut(10ft sections)
- ⇒ C-Clamps
- ⇒ Strut nuts, washers & strut bolt
- ⇒ Zeus Clips
- ⇒ Lathe Screws-pan head 1.25”
- ⇒ Padding
- ⇒ Cabling 1/4”
- ⇒ Windscreen (height & length varies by wall size)
- ⇒ Zip Ties

Legend

- Indicates special heed should be taken

- Indicates the tools to be used for this section

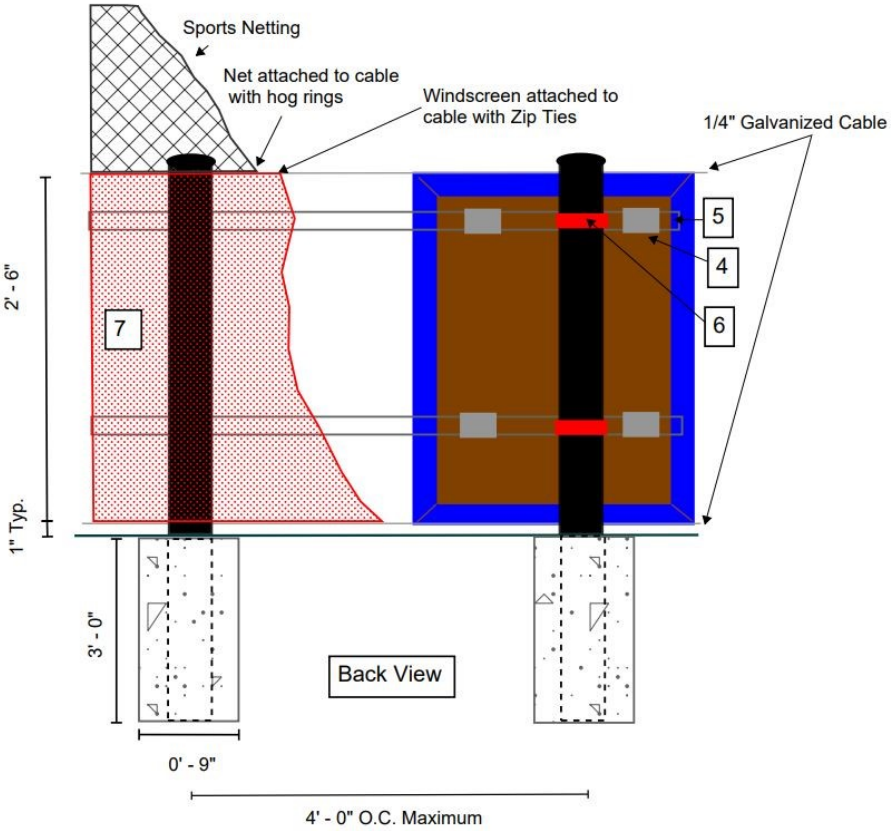
- Indicates parts to be used for this section

- Indicates hardware to be used for this section

Site & Assembly Preparation

⇒ Netting, Windscreen, Cabling, Padding, Posts, Unistrut, and C Clamps in rear profile diagram below. You must provide cement for posts & allow time to set before installing Unistrut & padding. It is recommended you consult local building codes prior to pouring cement.

⇒ Post spacing maximum 4’ on center.



Pole Installation

⇒ Step 1- Laying out string line.

A. You will want the string line to represent where you will want the face of poles.

- String line

⇒ Step 2– Marking the Holes.

A. Take marking paint and mark your end points and your corners of your fusion wall layout.

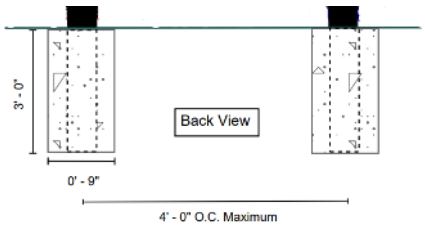
B. Once your corners and ends are marked, begin marking the rest of the posts 4ft on center (Maximum 4' O.C. space your poles out equally)

- Marking Paint, Tape Measure

⇒ Step 3– Digging the Holes.

A. Using required auger size dig all holes to correct depth where your marks are located.

- Auger, Tape Measure



⇒ Step 4– Setting the Poles.

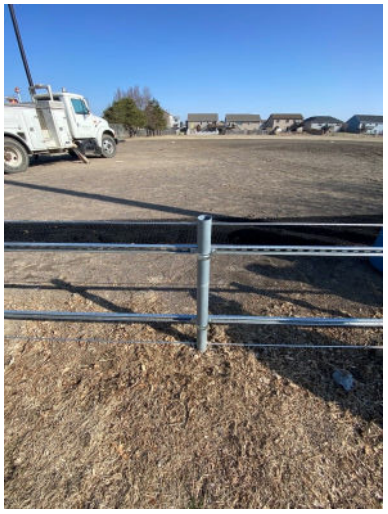
A. Pour Concrete into the holes and level up posts so they are as close to the string line without altering the string. Make sure posts are set at or above required heights (See #5A for cutting posts later.)

B. Once all posts are leveled stand from a distance and eye in any posts that may be slightly out of line.

- Level, string line
- Posts

Hardware (cabling & rails)

⇒ Step 5– Cutting and Drilling.



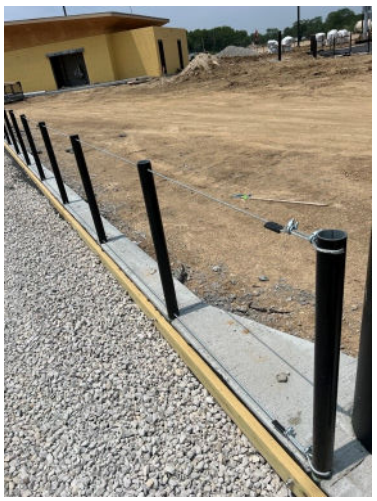
A. Once all elevations are finalized you can begin to cut the posts to exact height.

B. After posts are cut, predrill holes with a bit at 1" from the top and 1" from the bottom. All holes will be drilled in line with posts so cable(1/4") can run through them.

C. Once you have the holes predrilled, use a step bit and make holes larger (roughly 1/2") so your cable can run through posts with ease.

- Bandsaw, Drill w/1/4" bit & step bit
- Posts

⇒ Step 6– Cabling



A. Run top cable through all top holes and loop around the final posts toward the field

B. Fasten first side with one cable lamp as close to end post as possible and a second cable clamp 2" from the first leveling roughly at a 2" tail

C. Tape the tail to the main strand

D. Go to the other end of the fusion wall and pull it hand tight and put two cable clamps on the cable. DO NOT ⚠ fasten.

E. Put one extra cable clamp on just the tail end of the cable and one just before the next post on the main strand.

F. Hook up a come along to those two cable clamps and ratchet cable tight.

i. You don't want to bend the two end posts but you want them as tight as possible before they start to bend.

G. While the come along is still attached holding the cable tight, fasten the two original cable clamps in the same fashion as the other end (noted in #6B)

H. REPEAT PROCESS FOR BOTTOM CABLE

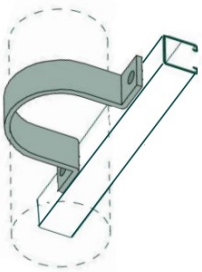
- Come Along, Drill for tightening bolts on cable clamps
- Posts, Cable
- 2" Cable Clamp

Padding & Windscreen

⇒ Step 7– Attaching Rails.

A. Mark posts 1/4 of total height from bottom and top (ex. 32" post height, mark 8" from the top and 8" from the bottom posts).

B. Fasten the C clamps around the rails and onto the posts with the top of the Unistrut on the mark.



- Drill w/ 1/4"-20 hex head strut bolt attachment
- Unistrust Rails & C Clamps
- Strut Nut, Washers & Strut Bolts

⇒ Step 8– Padding.

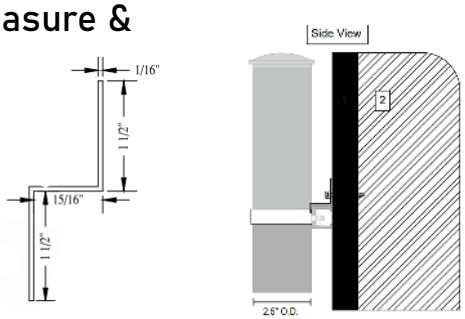
A. One teammate will hold a pad at desired elevation off the ground putting pressure against the pad and rail (also may help to use a wedge and a level to keep pads at a certain height and even across the top). The other teammate will fasten bracket to the back of pad resting on the Unistrut to desired height.

i. Bracket to be placed roughly 12" from each end of the pad.

B. Each pad will get 4 zeus clips (2 top and 2 bottom).

C. Once all pads are placed on fusion wall, it is best practice to eye pads in from a distance in which some pads may need to be adjusted for best looks.

- Drill for Lathe Screws-pan head 1.25", Tape Measure & Level
- Pads
- Zeus Clips & Lathe Screws-pan head 1.25"



⇒ Step 9– Windscreen

A. Fasten windscreen with zip ties to top and bottom cable along the backside of fusion wall.

- Windscreen
- Zip Ties