

## Steelhoard System – In Ground Installation



Ground spigot



Channel to post coupler



MF1



MF2

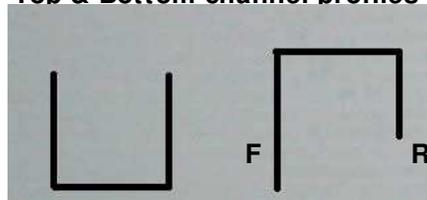


VC1 Vertical end channel



Double Gate Coupler

Top & Bottom channel profiles



bottom channel

top channel

### Instructions for installation – Posts and Ground spigots

Firstly, walk the hoarding line and decide where to start measuring centres from. If the line has a definite end, work away from the end. If gates must be in a set position, work away from the gate location.

Lay a string line along the hoarding line and mark locations at 2.5m centres. **Make sure all marked centres are dead straight along the string line.**

Dig/bore holes at the marked centres to 50mm deeper than the ground spigots and a minimum of 300mm circumference or 300 x 300mm square. Increase the hole size dependant on the current (and estimated future) firmness of the ground. Concrete the ground spigots in the holes so the top of the spigot is 50mm below ground level (This is so the spigots are below ground and can be covered when removing the hoarding). Ensure the spigots are dead plumb so the posts will exactly vertical. Insert the posts into the sockets at the top of the ground spigot when the concrete has set. Where the end of a line does not match 2.5m exactly add an extra post at the end of the line.

Cont. . . .

For all posts that are not at the end of a line or next to a gate, take the posts and slide 1 channel to post coupler onto the post with the channel opening upwards, then slide the second channel to post coupler onto the post with the channel opening downwards.

Turn the channel to post couplers so the channel part is to the outside of the site. Slide the top channel to post coupler up the post until it is at least 2.45m above the bottom channel to post coupler which should be as low down the post as possible. Finger tighten the bolts so the Channel to post couplers stay in place.

### **Corners and Ends/ gates:**

**At the end of a run**, use MF1 fittings instead of channel to post couplers but fixed in exactly the same way.

**On an external corner (where the post is inside the corner)** use 1 x MF1 and 1 x MF2 instead of each channel to post coupler as in the picture (left) below;

**On an internal corner (where the post is outside the corner)** use 1 x RC1 and 1 x RC2 instead of each channel to post coupler as in the picture (right) below;



**External corner**



**Internal Corner**

Cont. . . .

## **Installation of Channels and Sheets:**

Place the 5.0m bottom channel (see section picture above) in the bottom channel to post couplers and tighten. If the post centres have been measured correctly, adjacent channels should begin and end half way along the channel to post couplers.

**Take care** to look at the top channels – One side is longer (deeper) than the other. Ensure the long side goes to the front (outside) of the hoarding line. It will help to cut a measuring stick for fixing the top channels. The best length is the same as the sheet length but minus the depth of the bottom channel. To get the correct distance for fixing the top channel, stand the measuring stick on the bottom channel and fit the top channel by resting the back (shorter) section of the top channel at the top of the measuring stick. This helps when the sheets are fitted as they will miss the back part of the top channel but lean against the front (longer) section when stood in the bottom channel.

Drop the sheets into the bottom channel (as above) and then drop the top channel down the post so the sheets are fully captivated. The sheets are designed to lap over each other a little (or more where adjustment is required at the end of a run) to give a seamless run.

**Make sure all nuts/ bolts etc. are fully tightened once the sheets are in place.**

## **Corners and Ends/ Gates.**

**At the end of a run** you may need to cut the channels down to suit the line length. The MF1's have a stop end in them. As well as the top and bottom channels, you will have received some shorter (2.0m or 2.4m channels). These are VC1's (Vertical channels). Stand the VC1 in the MF1's and slide the last sheet on the run into the channel. Tighten up etc as above. This ensures that end of the last sheet is covered up in the vertical channel.

**On a corner**, do exactly as above except a corner is actually two ends.

**At a gate**, end the line exactly as above except also use a double gate coupler (see top). Always use the special posts provided for each gate leaf.

**Cont. . . .**

## **Extra Bracing:**

Extra bracing is sometimes required on the in-ground system. Particularly in soft ground conditions or particularly exposed areas;



**Backstay collar**



**BBC post to tube coupler**



**Swivel scaffold coupler**

The braces use a 900mm scaffold tube concreted into the ground between 1.2m and 1.5m inside the post. Concrete the tube into the ground so the top is no more than 100mm above ground. If possible, concrete the tube in so the top is 50mm below ground level but ensure there is sufficient space to attach the swivel scaffold coupler.

Attach the 8 ft scaffold tube to the in-ground tube using the swivel scaffold coupler. Lean the 8ft tube so it meets the side of the Steelhoard post.

Slide the Backstay collar down the post until it meets the 8ft tube (If the system is already erected you will have to remove and replace the top channel to post coupler). Fasten the BBC to the bolt on the backstay collar and insert the 8ft tube into the BBC. Tighten all bolts to ensure there is no movement.

Extra braces can be fitted as required. This can be every 4<sup>th</sup>, every other or every post as required.

The system is easy to install if the instructions above are followed. However, it can sometimes look a little daunting when it arrives in component form – SO IF IN ANY DOUBT, RING AND ASK.