

Anchors for CSB, WCSB & TWCSB Post & Frame signs on Concrete Safety Barriers

Post fix anchor

This method of providing a temporary anchorage for signs more easily suits slip form construction. The anchors are drilled and fixed in the top of the completed barrier using a chemical anchor system. Drilling for the anchorages is discussed on Data Sheet 512. This method is likely to provide the most economic solutions. (Figure 2)

Cast in place fixing

Cast in place sockets present a feasible solution for insitu sections of barrier such as transitions. Fixing Centre Limited (FCL) has developed a range of transition cradle anchorage systems for use with CSB.

A major disadvantage of using cast in anchorages for fitting minor structures such as signs is that they do not readily suit continuous slip form construction, and are likely to lead to increased cost for the bracket system.

Postfix anchor for A-frames

A typical A-frame fixing system is shown in Figures 1 and 3. Any securing brackets should be mounted on top of the barrier and the supporting anchor can be retro fitted or cast in place as discussed below. It is essential that the fixings are accessible and can be removed easily upon completion of the works. In the case of a standard concrete barrier, it is safer to use mounting brackets and straps to stabilise the sign mounting frames.

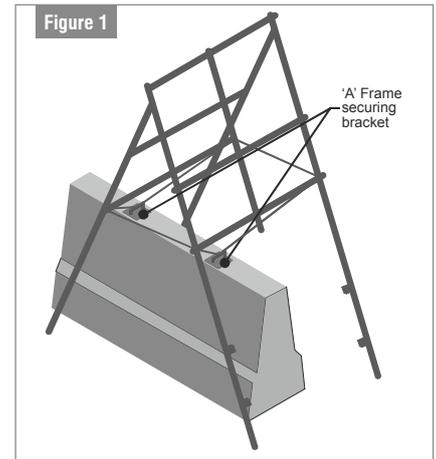
One obvious drawback of the A-frame system is that the frame sits outside the barrier and thus generates an increased risk of adverse barrier performance in the event of a collision.

The size of sign is dictated by the amount of information it has to convey. The individual character size on signage is determined by national standards based upon requirements for permanent signs. This often gives rise to large signs that occupy much of the available space in the central reserve

Barrier type

In general temporary signs will be mounted on standard CSB which has an available width of 200 mm. If the barrier is subsequently used to support lighting columns or permanent signs, then WCSB will generally be adopted. This provides a greater selection choice for anchors as the top of barrier width increases to 600 mm.

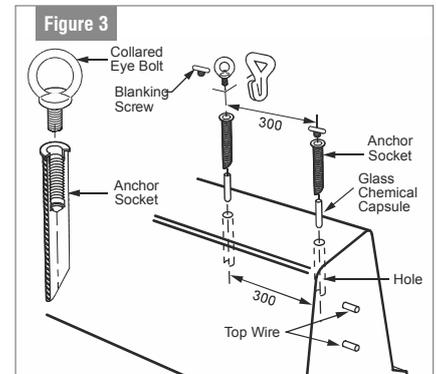
For CSB, drilling for the anchor can damage the reinforcement locally. However this should not affect barrier performance.



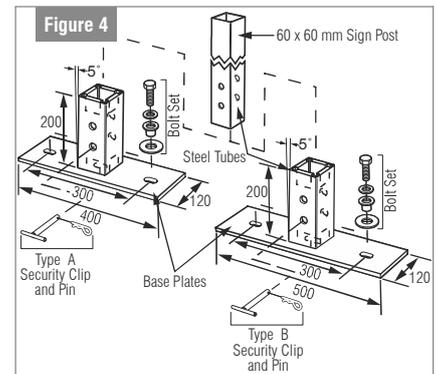
A-frame securing bracket or eyebolt



Installed Fitting



Eye Bolt Fitting



Base/Flange Plate Fitting

For more details please call our sales dept:

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