

These castings are made from Alumilite RC-3. If painted properly (for UV protection), and supported properly, they are suitable for outdoor use. They will not rust. They will not rot.

Thin sections can deform under heat, so take care that they are installed properly. Figure 1 shows a bridge girder supported correctly on a pedestal. Note that the girder and pedestal are both plumb, and the thickest part of the girder casting is fully supported by the pedestal.

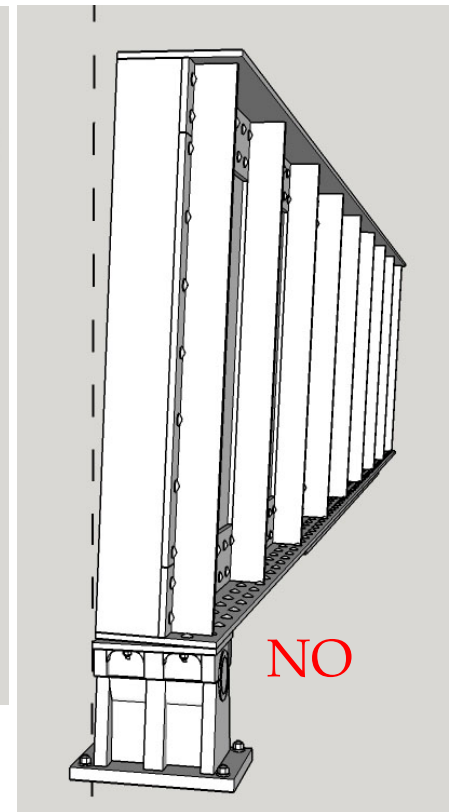
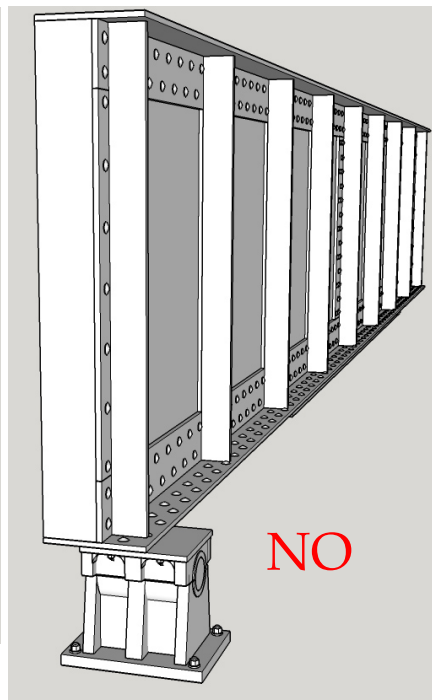
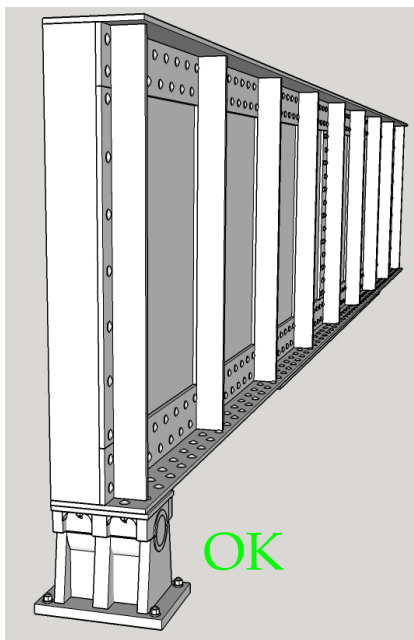
Figure 2 shows an incorrect installation. This will cause warping, especially if left in direct sunlight. The thin section of the casting is bearing too much weight.

Figure 3 shows another incorrect installation. The thick part of the girder casting is directly over the pedestal, but it is not plumb - thus putting excessive pressure on the thin part of the casting. This will also warp.

Fig 1

Fig 2

Fig 3



If you are installing the girders with the pedestals, you will need to remove the rivets on the bottom of the girder to get a flat surface. They can be scrapped off with a flat-tipped X-Acto blade, or sanded off.

If your bridge has multiple spans, an ideal installation would be to use angle iron, or aluminum angle as the main weight bearing structure of the bridge. Then attach the castings by screws from the back. 2-56 thread cutting screws (available from [www.microfasteners.com](http://www.microfasteners.com)) work well for this.