

## 4 ALLOWABLE WHEEL LOADS

The maximum allowable wheel load for the end trucks is determined by these criteria:

- ❑ Properties of the truck structure or frame
- ❑ Permissible surface pressure between the wheel and the rail
- ❑ Maximum bearing capacity
- ❑ Service life of the bearings

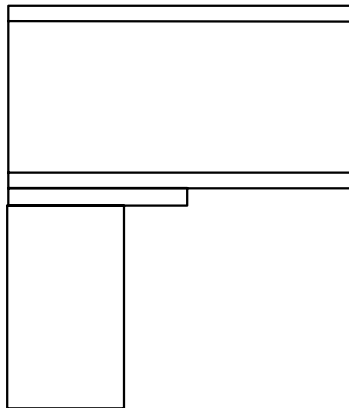
The following checks should be made when selecting the end trucks for the crane application:

- ❑ Wheel loading not to exceed allowed value
- ❑ Structure loading not to exceed allowed loading value
- ❑ Bridge girder connection (double girder crane with box girders)

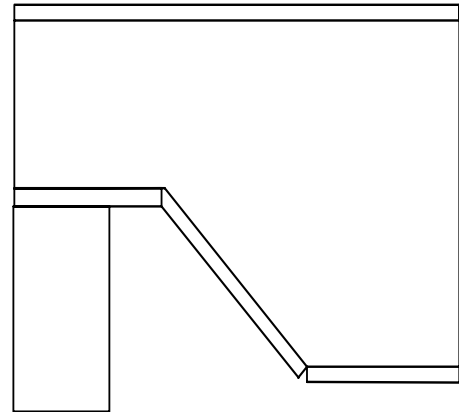
## 5 GIRDER CONNECTION TYPES

### 5.1 Top Joint Plate

All of the SHR end trucks are furnished with a top joint plate unless otherwise specified. The top joint plate is suitable for a box type girder in a STD or MED girder position.



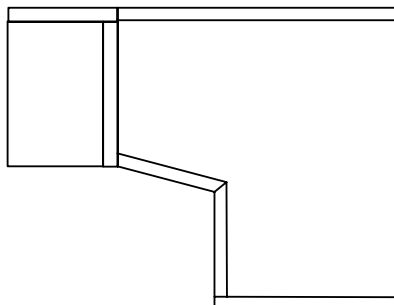
**STD girder position**



**MED girder position**

### 5.2 Side Joint Plate

Only the SHR25, SHR32, SHR40, and SHR50 end trucks can be equipped with side joint plates. The side joint plates are suitable for box type girders and are typically used in low clearance crane applications.



**LOW girder position**