CURVED RAIL

Bending rail

Minor bends can often be made when the rail is installed. If the rail requires more bend, Harken can provide horizontal, vertical, or compound curves to specification for a modest charge. If the bend is continuous, add 50 - 100 mm (2 - 4") to each end because rail cannot be bent to its ends.

Important

To perform smoothly and carry the correct load, the trolley's length must suit the rail radius. Trolley selection must be carefully considered for twin trolley anchorage on curved systems. Standard twin trolleys with connection plates may restrict performance around bends or become loose over time. Please refer to local Harken Industrial Tech Support for assistance.

1. Vertical bend: ends down

An "external bend" formed in the same plane as the fixings, typically when fixing rail to the outside surface of a curved structure.

2. Vertical bend: ends up

An "internal bend" formed in the same plane as the fixings, typically when fixing rail to the inside surface of a curved structure.

3. Horizontal bend

A bend formed in a perpendicular direction to the fixings, typically mounted to the flat surface of a curved structure, such as the parapet top of a curved building.

4. Compound bend

A combination of a vertical and horizontal bend, installation can be to internal and/or external surfaces. **PLEASE NOTE:** Compound bends are NOT available for the R27 Long Span.

System	Rail length m	Minimum radius (factory bend) ft	Minimum radius (factory bend) m	Minimum radius (vertical on-site) ft	Minimum radius (vertical on-site) m	Maximum chord depth (vertical on-site) in	Maximum chord depth (vertical on-site) mm	Minimum radius (horizontal on-site) ft	Minimum radius (horizontal on-site) m	Maximum chord depth (horizontal on-site) in	Maximum chord depth (horizontal on-site) mm
R27	3	9	2.73	49.2	15	3	75	49.2	15	3	75
R32	3	18	5.49	49.2	15	3	75	49.2	15	3	75
R27LS	3	9	2.73	55.8	17	2 9/16	65	85.3	26	1 21/32	42
TR31	3	1.17	0.35								