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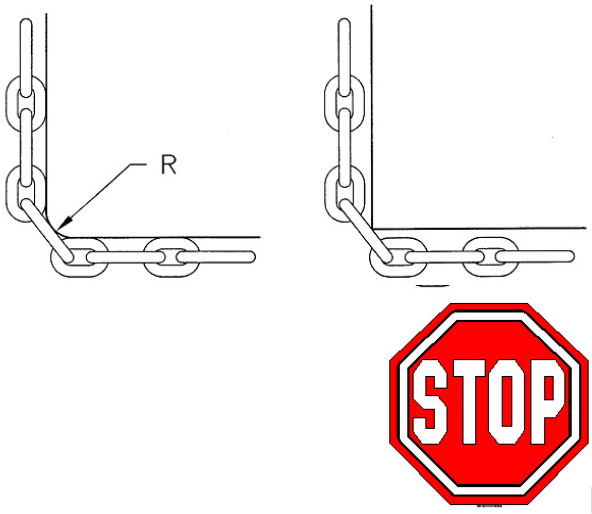
RIGGING WITH RIGGIT TONY
For use as part of tool box talks and safety meetings

Chain slings are one of the most often used slings for industrial and construction companies. They are known for being rugged and will take a lot of abuse when used on rough and abrasive surfaces. What has to be remembered is that a chain sling is only as strong as the weakest link. While chain slings are tough there are things we need to keep in mind.

D/d ratio

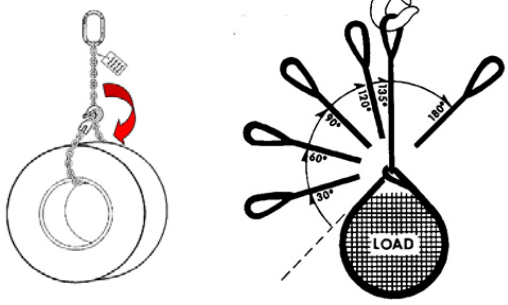


Chain slings do not like sharp corners. Depending on the load, the forces on the sling on a sharp corner could be enough to bend the link. Bearing forces on the sling at the corner could be 40-50% of the load that is being lifted. The best way to protect the sling is to make sure that the corner Diameter is large enough to not damage the sling.

Keep in mind that if you do not follow the recommended 6:1 D:d ratio listed on the chart to get the sling capacity, you must reduce the sling capacity based on the chart below.

Alloy Chain D/d Ratio Efficiency	
D/d ratio	**% of Rated Capacity**
6:1 and Greater	100%
5:1	90%
4:1	80%
3:1	70%
2:1	60%
Less than 2:1	Not Recommended

In addition when using chain slings in choker, capacity adjustments may be required based on the angle of choke. When a chain sling is used in choke, the hitch requires a standard reduction of 20% from the vertical capacity of the sling. This standard reduction is for slings where the angle of choke is greater than 120 degrees. If using a cradle grab hook and angle of choke is greater than 120 degrees the full rated WLL can be used. If using chain slings with standard hooks below 120 degrees call for capacity reductions.



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