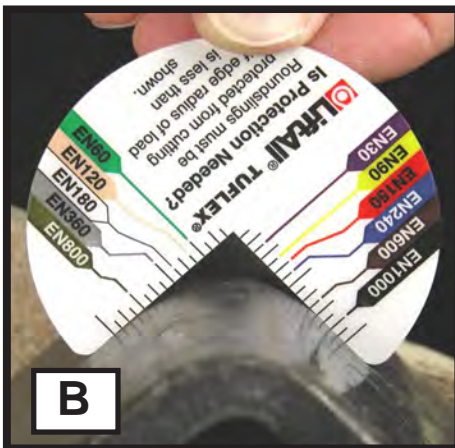


## EDGE RADIUS MANAGEMENT TOOL RAD-MAN™

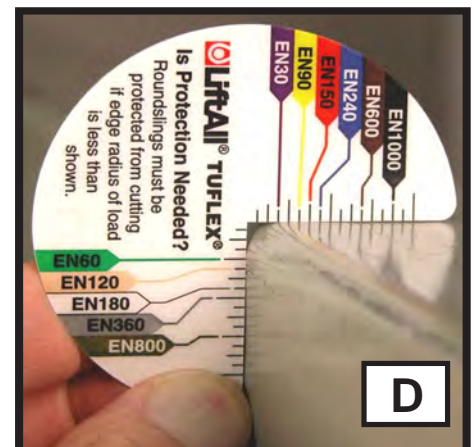
The *Lift-All* Edge Radius Management tool (*RAD-MAN*) assists in the evaluation of loads to be lifted with either roundslings or web slings by providing an easy way to measure the radius of a load edge. This document conforms to *Lift-All* requirements and the WSTDA RS-1 polyester roundsling standard. *Lift-All* minimum edge radius tables are available for web slings, and also for *Tuflex*® polyester, *DynaFlex™* *Dyneema*® and *KeyFlex™* Aramid roundslings.



### How to Use RAD-MAN

1. *RAD-MAN* can be used to either measure the radius (Photo A), or be used to directly check the suitability of a particular *Tuflex* size (Photo B).
2. Choose Side A or B and then position *RAD-MAN* over the edge that will be in contact with the sling.
3. *RAD-MAN* can be used to measure edges of 90° or less. When positioned correctly, both sides of the load edge will first touch *RAD-MAN* at the same point on each side. The radius of this edge appears to be 3/4 of an inch.
4. This side of *RAD-MAN* shows the required minimum radius for the various *Tuflex*® roundslings to be used without additional protection. In this photo, the load edge appears to first touch *RAD-MAN* at the EN800. This means that an EN800 or any smaller size would be good to use against this edge. An EN1000 would need to have suitable sling cut protection.

If you are having difficulty in reading the measurement, always err on the safe side. In this case, if you think that the first touch might be at the EN800 but aren't sure, and you are using it to its' full rated capacity, then use sling protection.



### Application Examples and Best Practices

As another example, the measurement here looks like 3/16 of an inch. The only *Tuflex* size that can lift to capacity against this edge would be an EN30. All others would need additional protection.

When using any web sling or roundsling at less than its' rated capacity, the minimum edge radius allowed may be reduced by the same percentage as the slings tension is to its' rated capacity.

For instance, an EN150 sling at full capacity needs a radius of 3/8" or greater. An EN150 being used at only 1/2 of its' rated capacity could be used on a 3/16" radius without needing additional protection (i.e.  $3/8" \times .50 = 3/16"$ ).

For additional information on calculating allowable minimum edges when using a sling at less than its' rated capacity, please refer to *Lift-All* Technical Bulletin RS-48 or contact the *Lift-All* Engineering Department.