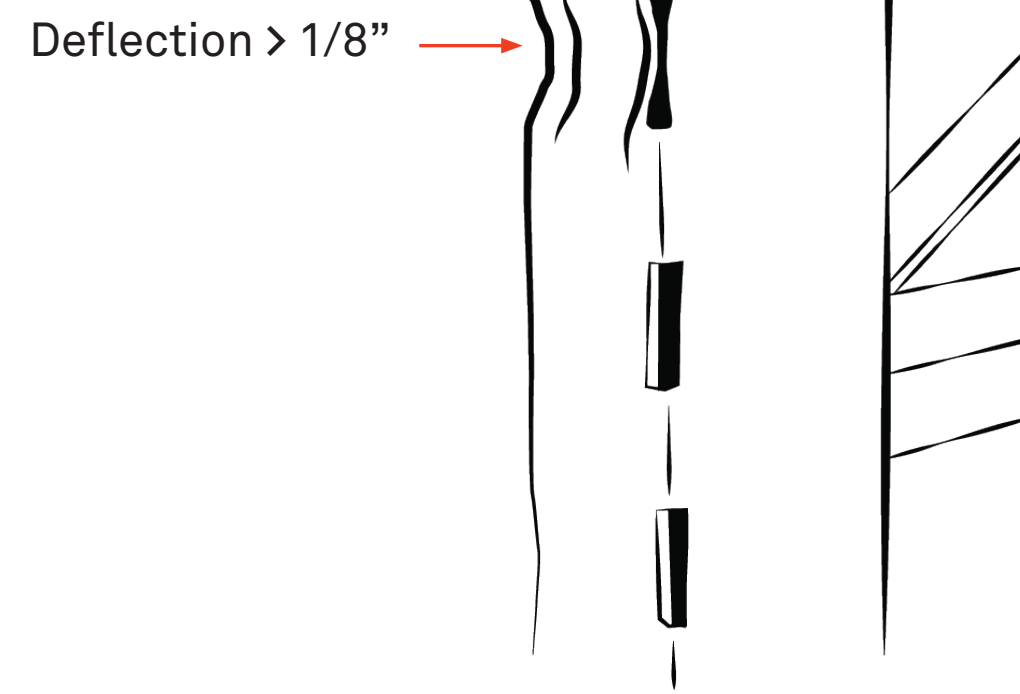


# RACK SAFETY GUIDE

## THE 1 2 3 RULE

### 1 UPRIGHTS FRONTAL

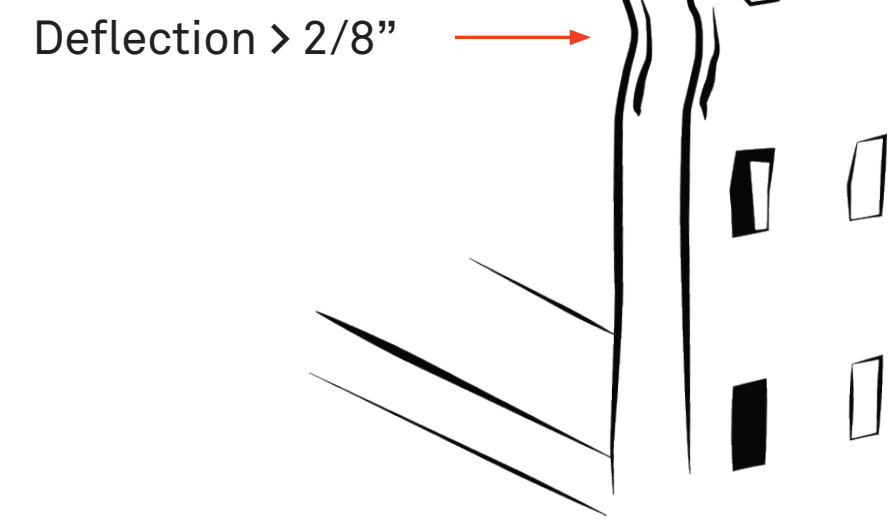
Over 1/8" of frontal deflection within a span of 40"



Also look for other types of damage such as dents, cracks, bulges, pinched columns and signs of corrosion.

### 2 UPRIGHTS LATERAL

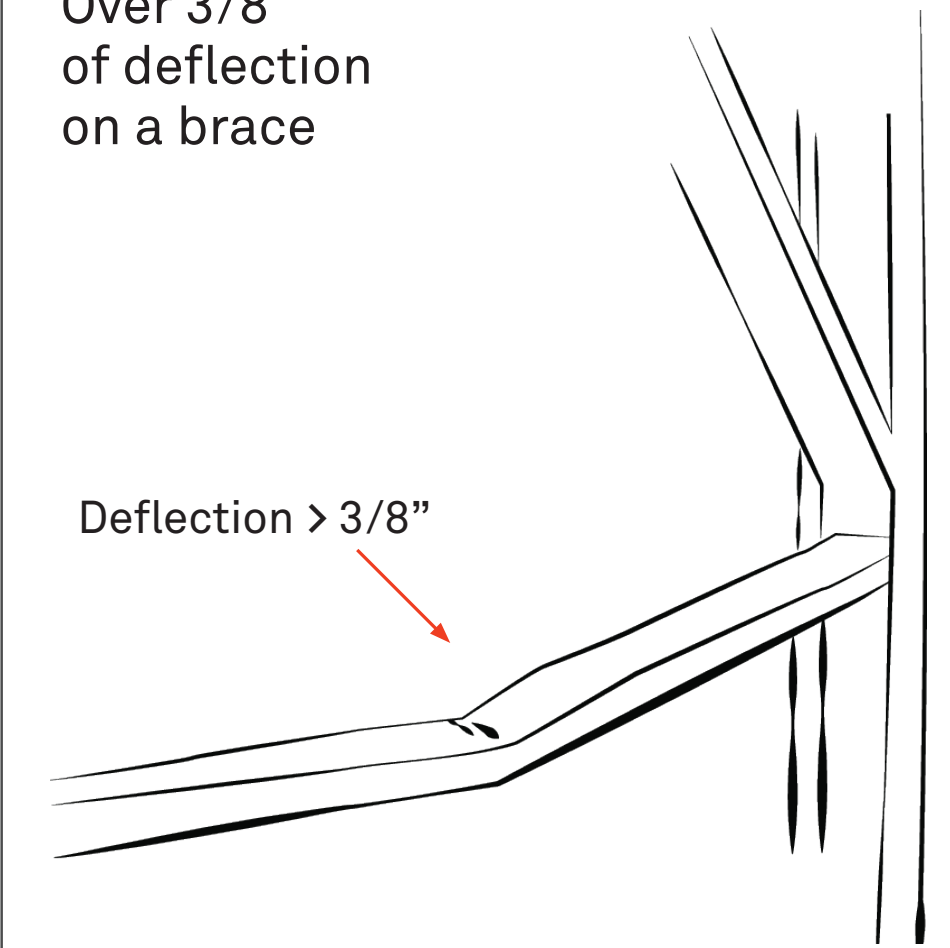
Over 2/8" of lateral deflection within a span of 40"



Also look for damage occasionally hidden behind the beam connectors.

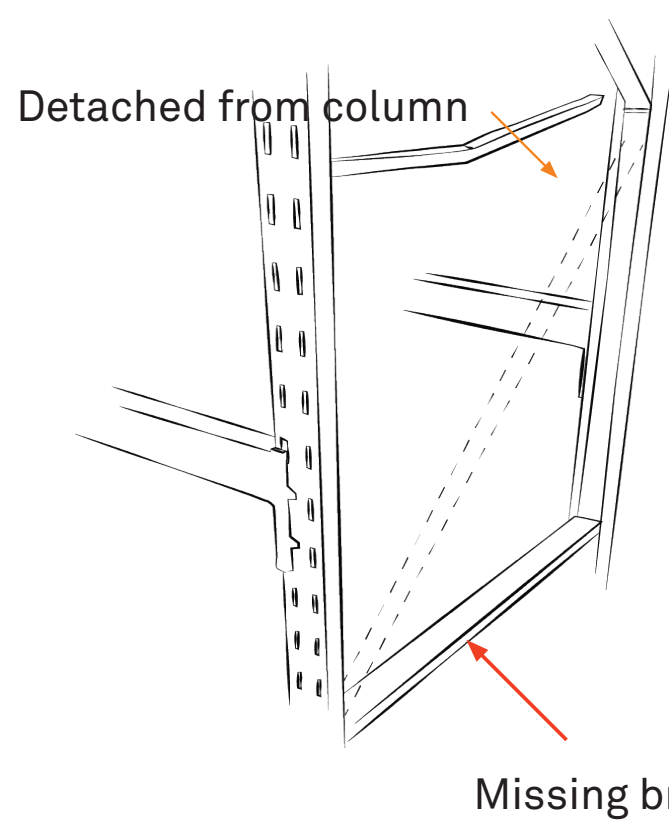
### 3 BRACES HORIZONTAL & DIAGONAL

Over 3/8" of deflection on a brace



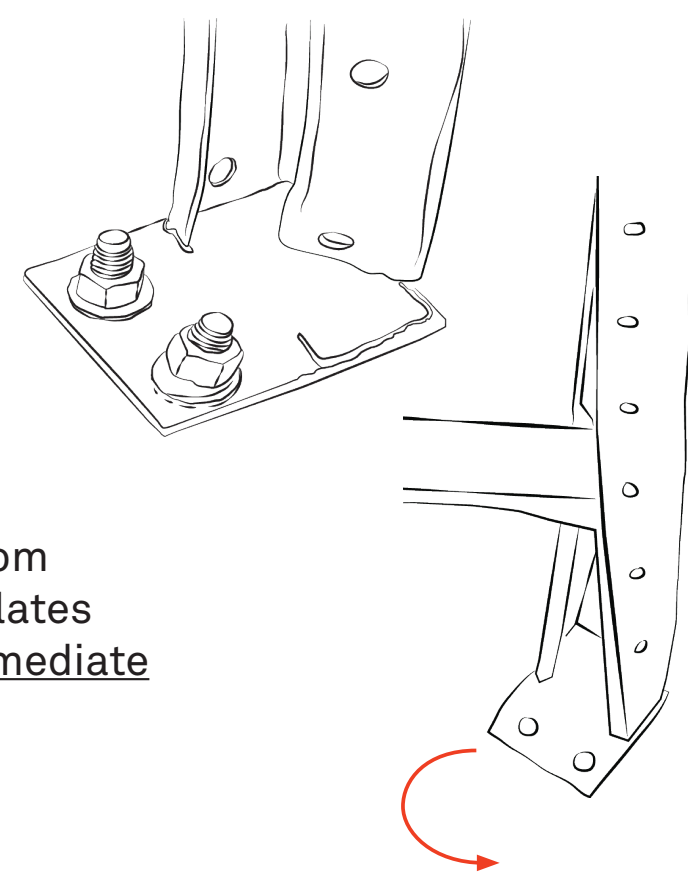
Also look for cracked or broken welds between the column and the brace.

#### BRACES



Horizontal and diagonal braces are essential to the capacity and stability of the rack system. Any missing or detached braces should be addressed.

#### SHEARED OR TWISTED COLUMNS



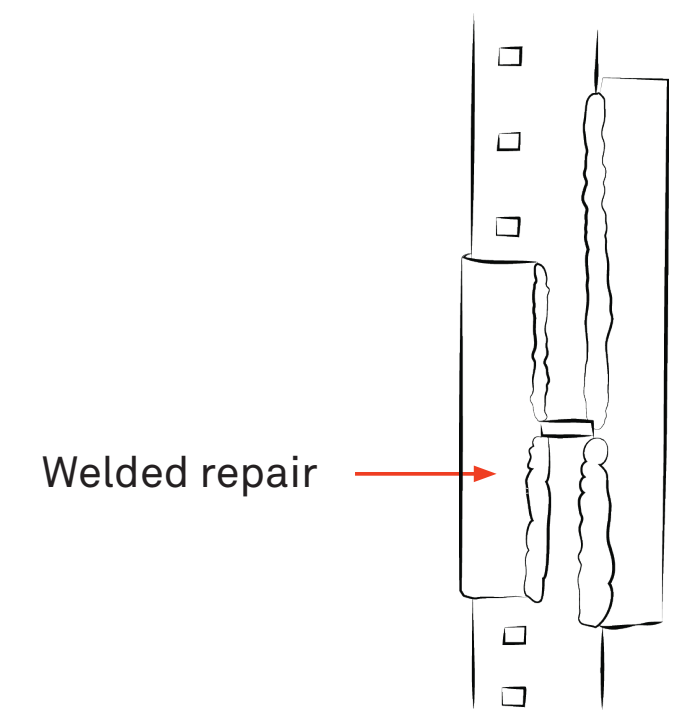
Twisted columns are difficult to assess. They may impede the load capacity of the rack, which is why we recommend calling an expert.

#### ANCHORING



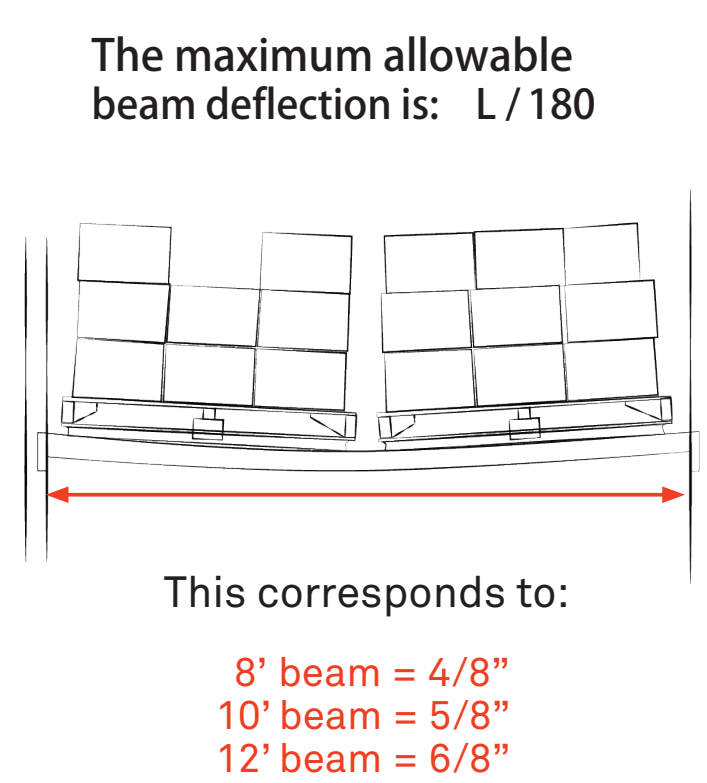
Look for missing, loose and/or damaged anchors or foot plates. Shims should be well seated, well secured and of equal size to the footplate.

#### LOCAL REPAIRS



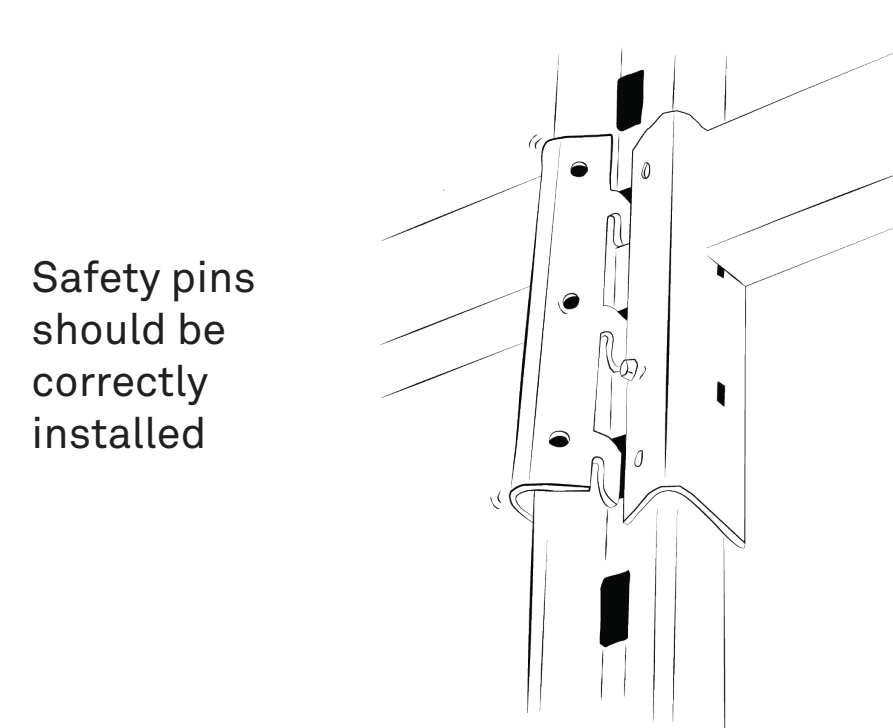
Unless approved by an engineer, any home made repair should be replaced by an engineered repair solution. Welded splices and non-matching extensions are signs of local repairs.

#### BEAMS



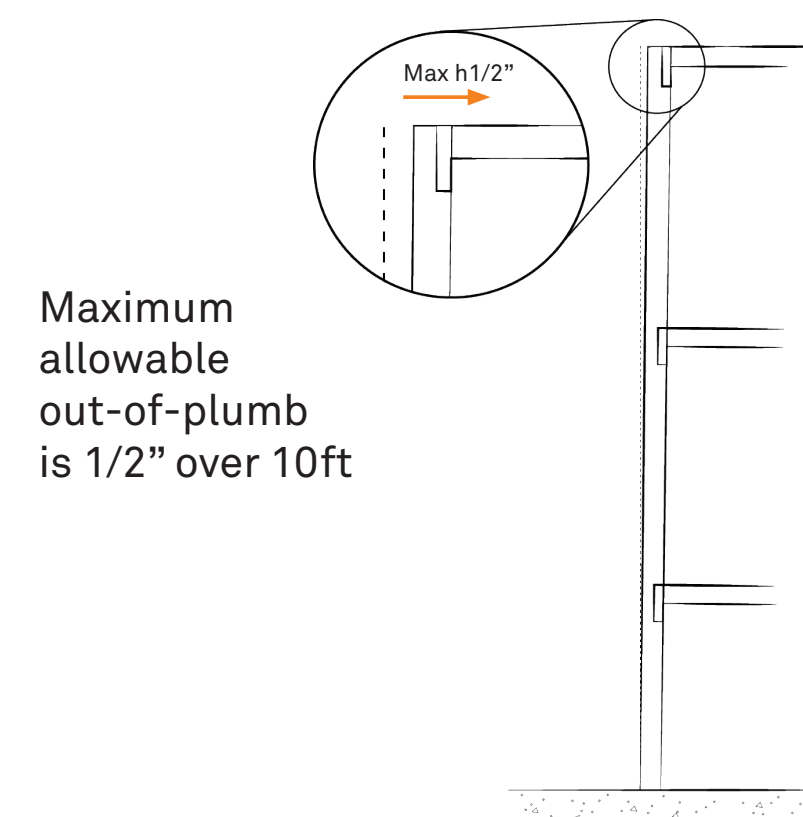
Look for deflected, damaged, unclipped and/or overloaded beams. Other common issues are missing safety bars, overloaded, improperly positioned or damaged pallets.

#### BEAM CONNECTORS



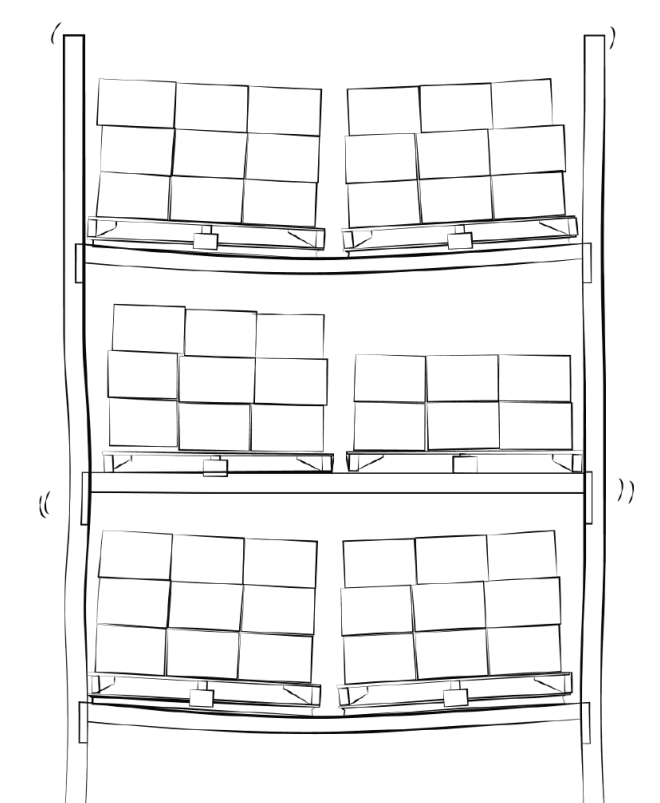
Look for corrosion, deformations, cracks in the welds, broken connectors and/or missing safety pins. Safety pins are essential to prevent beam clips from detaching.

#### OUT-OF-PLUMB



An out-of-plumb upright means that it is not exactly vertical. The same rule applies in the cross-aisle and down-aisle directions.

#### LOAD CAPACITY



## THE NEXT STEP..

### DAMAGE ASSESSMENT



A competent factory trained racking professional will walk the facility and provide:

- Site inspection to identify product damage and safe practices.
- Summary of Inspection guidelines, found concerns with list of recommendations.
- Written quote including repair/replacement components and system protection items.

### CSA COMPLIANT INSPECTION



A CSA trained racking inspector will walk the facility and provide all items included in the Damage Assessment as well as:

- Inspection checklist completed in accordance to CSA standards.
- Drawings with floor plan and elevations, location and type of damage.
- Suggested capacity report in guidance with manufacturers design guide.
- Final report with reference to CSA A344.1-05/A344.2-05 standards.

### ENGINEERED INSPECTION



A professional engineer will walk the facility and provide:

- Complete inspection of damage, system conformity with capacity calculations.
- Actionable inspection report with inspection procedures & field observations.
- Recommendations and summary location plans of the inspected system.
- Engineering report with data, assumptions & calculation results.
- Labels or plaques displaying the load capacity of the systems.



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DAMOTECH