

RACK SAFETY

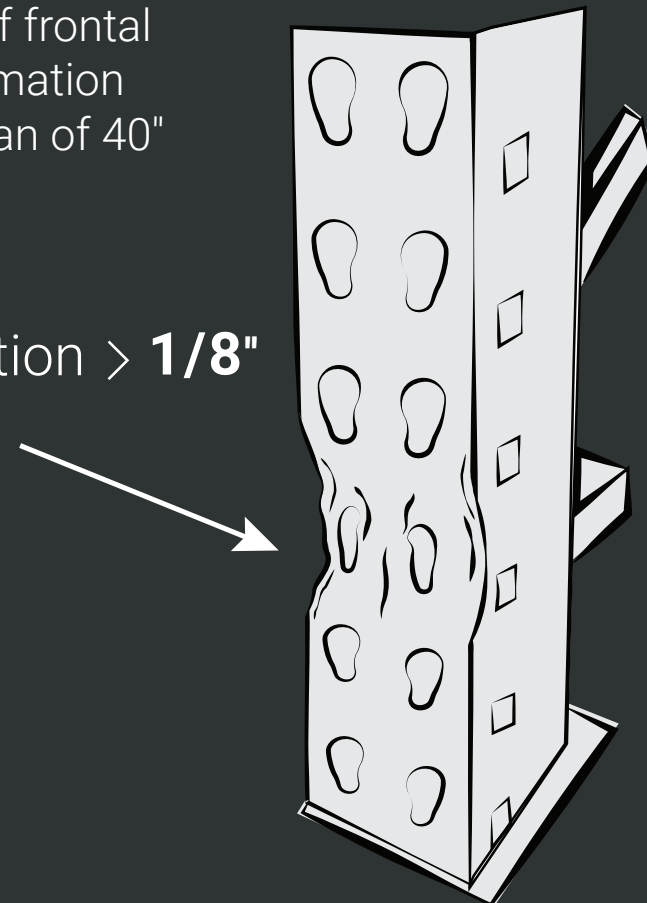
THE 1-2-3 RULE

Use the 1-2-3 rule to determine the priority for upright damage repair:

1 COLUMN FRONTAL DAMAGE

Over 1/8" of frontal local deformation within a span of 40"

Local deformation > 1/8"

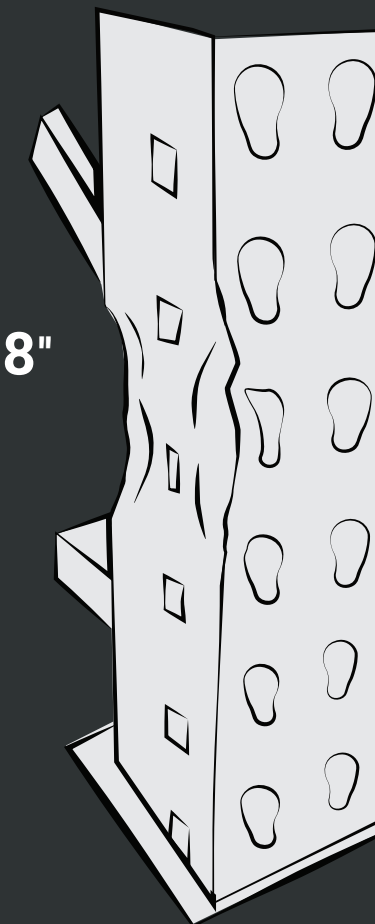


Look for other types of damage such as dents, cracks, bulges, pinched columns and signs of corrosion.

2 COLUMN LATERAL DAMAGE

Over 2/8" of lateral local deformation within a span of 40"

Local deformation > 2/8"

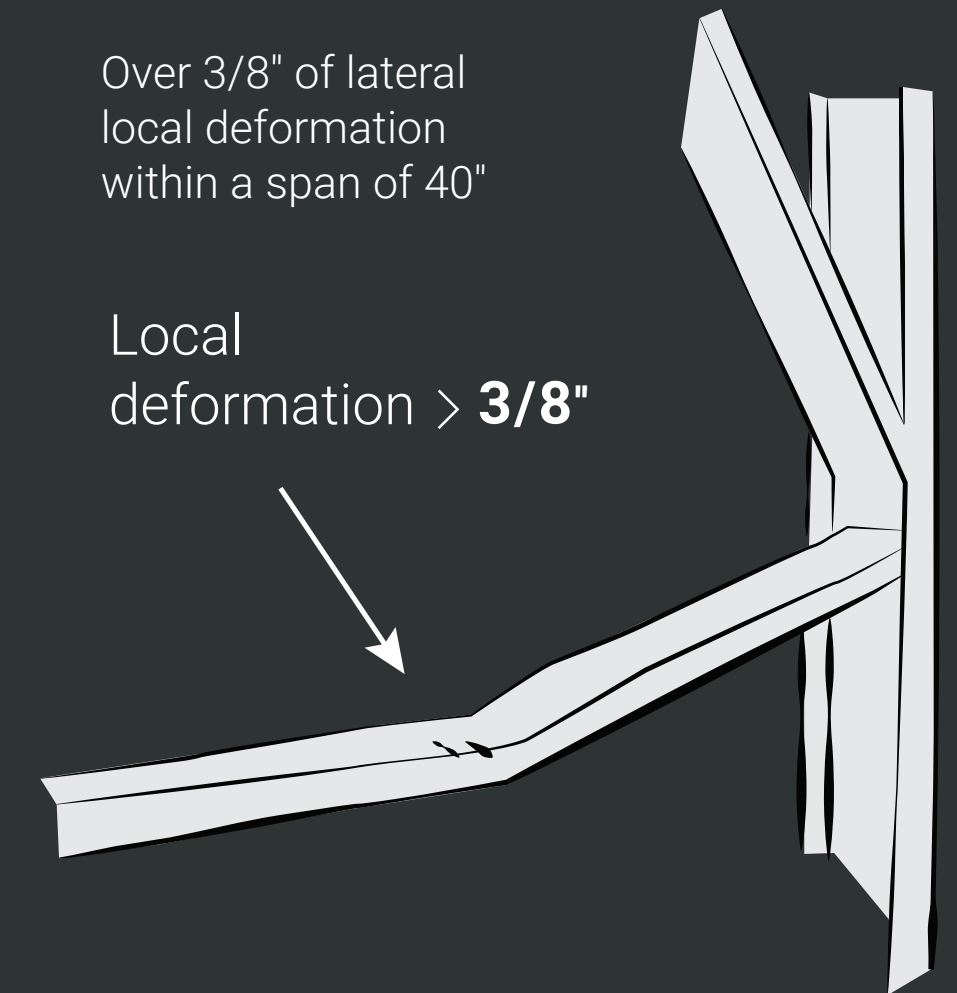


Look for damage occasionally hidden behind the beam connectors.

3 BRACE DAMAGE

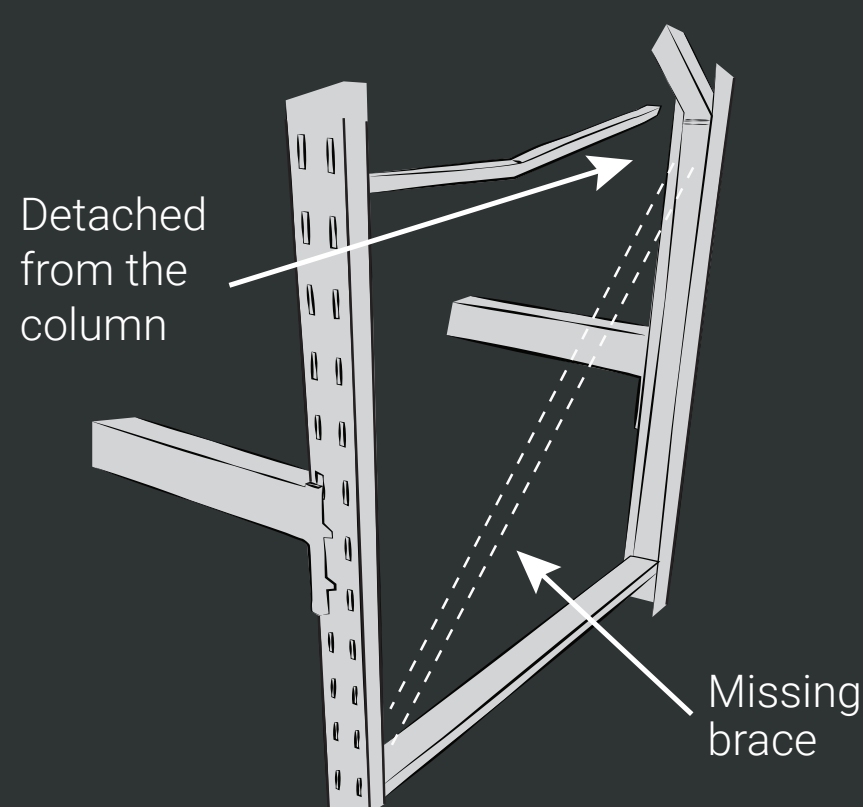
Over 3/8" of lateral local deformation within a span of 40"

Local deformation > 3/8"



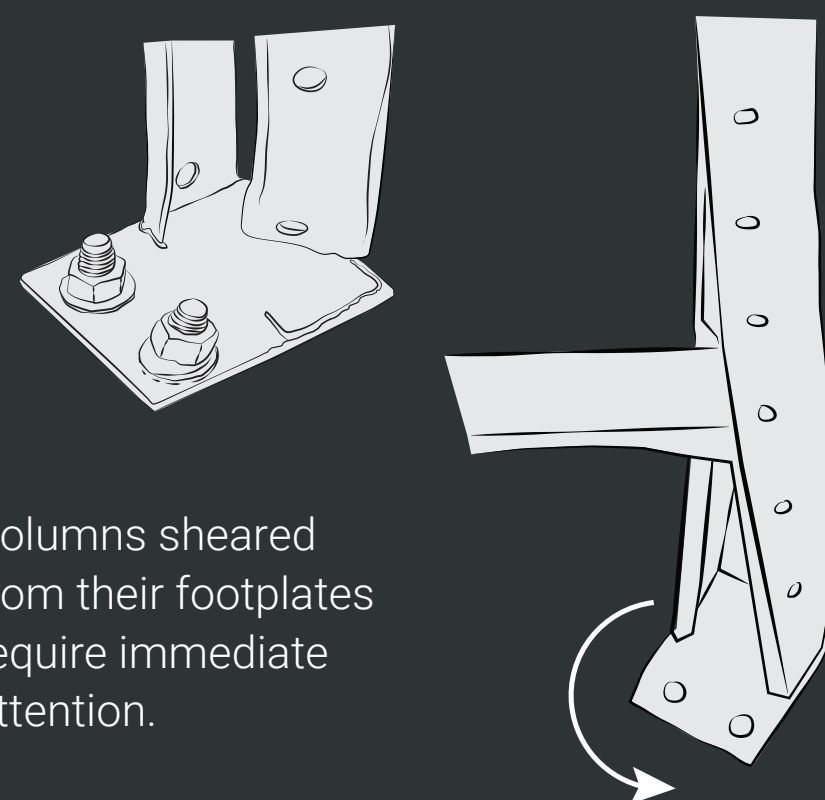
Look for cracked or broken welds between the column and the brace.

BRACES



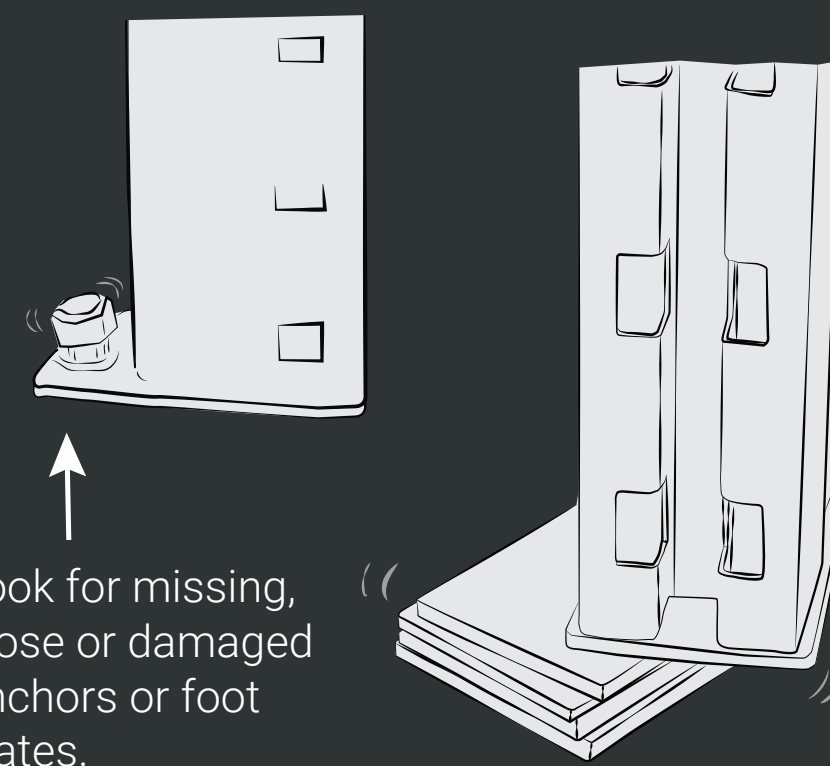
Horizontal and diagonal braces are essential to the capacity and stability of the racking system.

TWISTED COLUMNS



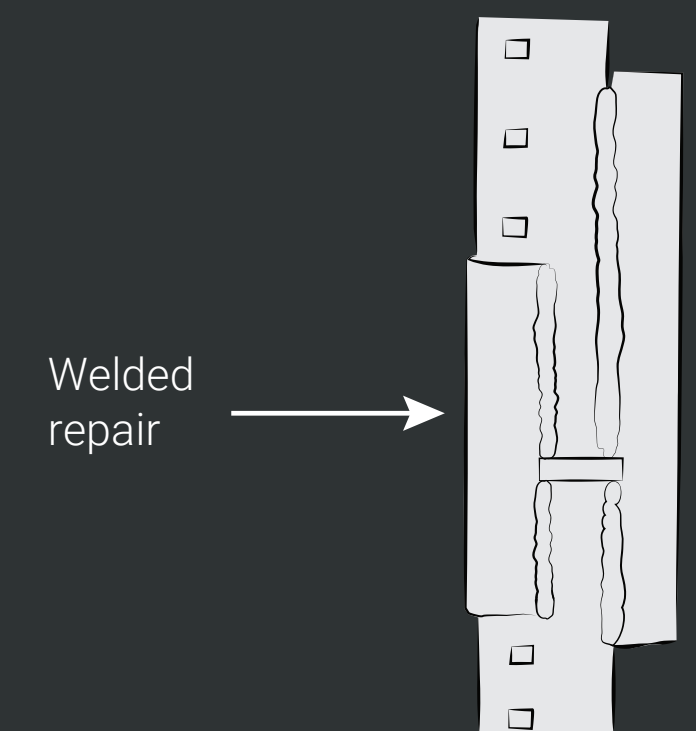
Twisted columns impede the load capacity of the rack. We recommend calling an expert.

ANCHORING



Shims should be well seated, secured and of equal size to the footplate.

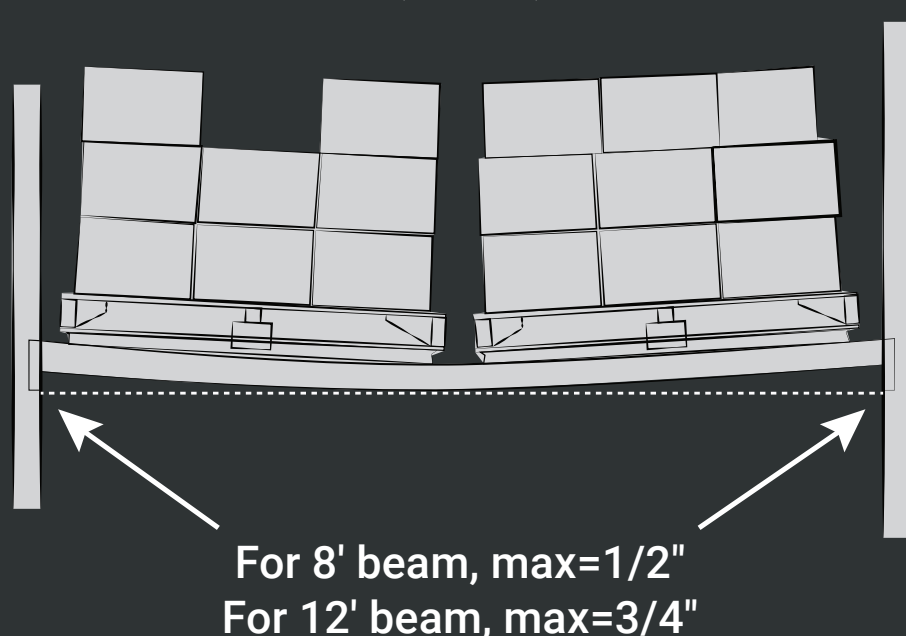
HOMEMADE REPAIRS



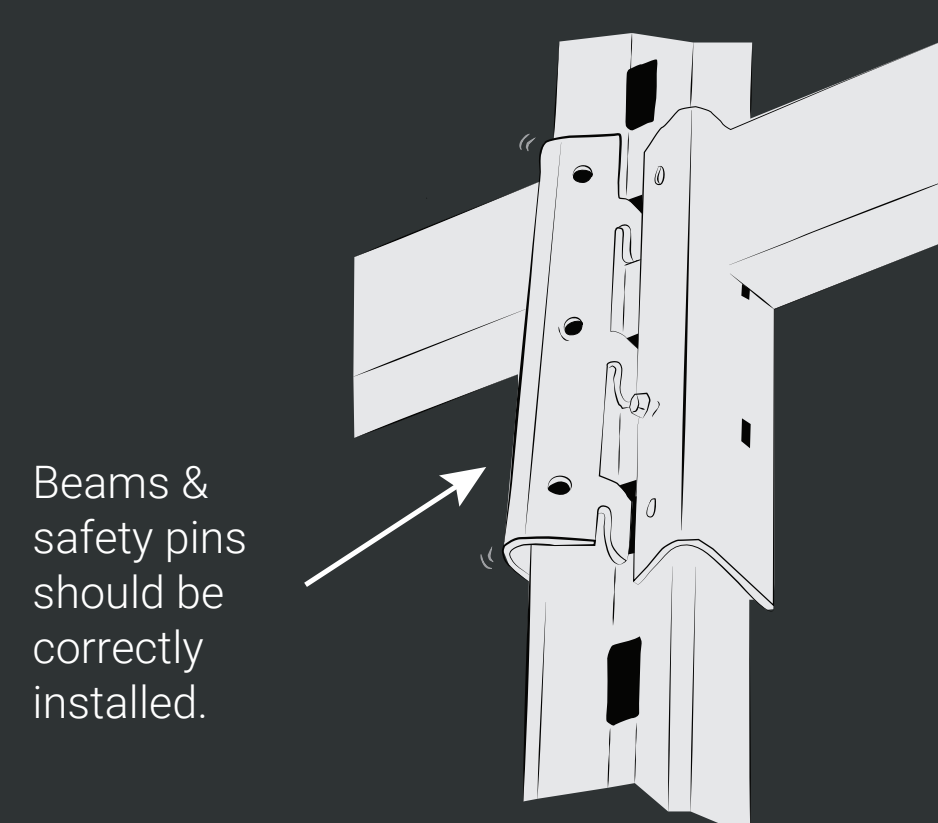
Any homemade or welded repair should be replaced by an engineered repair solution.

BEAMS

Maximum allowable beam deflection:
Length (inches) / 180

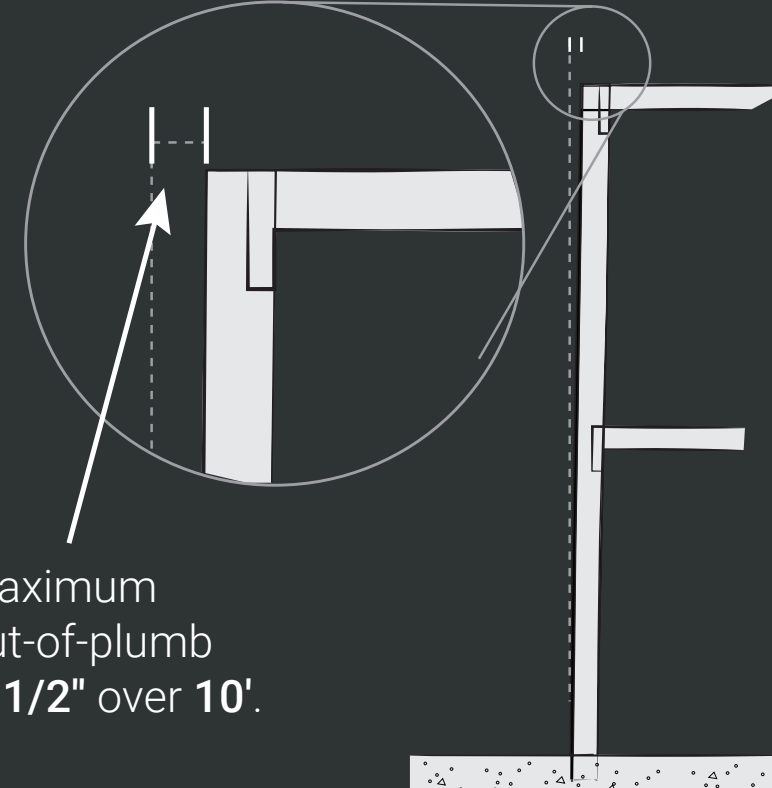


BEAM CONNECTORS



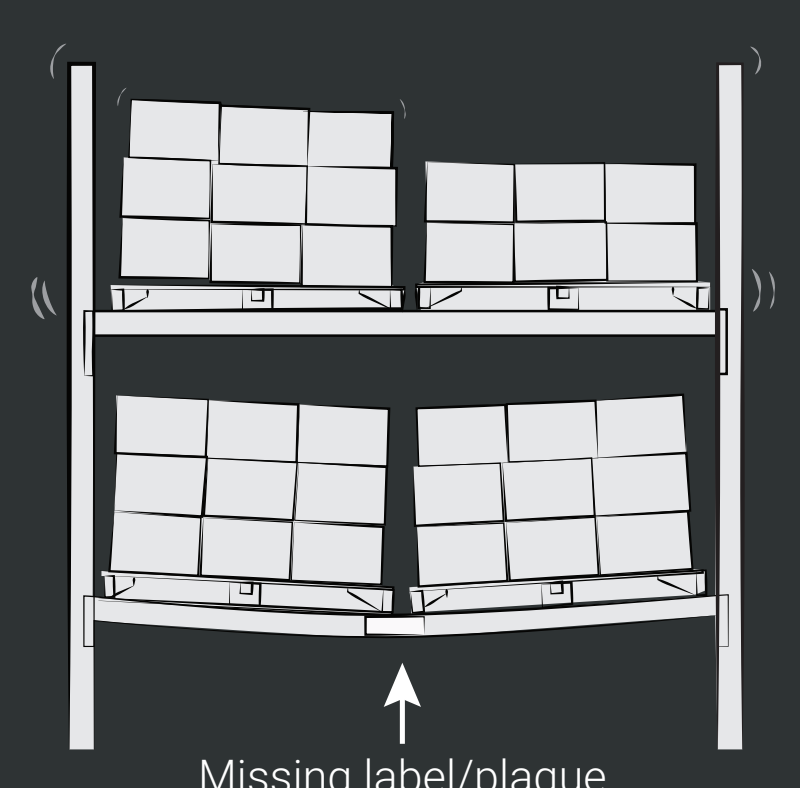
Look for corrosion, deformations, cracks in the welds, broken connectors or missing safety pins.

OUT-OF-PLUMB



An out-of-plumb upright means that it is not exactly vertical. Always look in the cross-aisle and down-aisle directions.

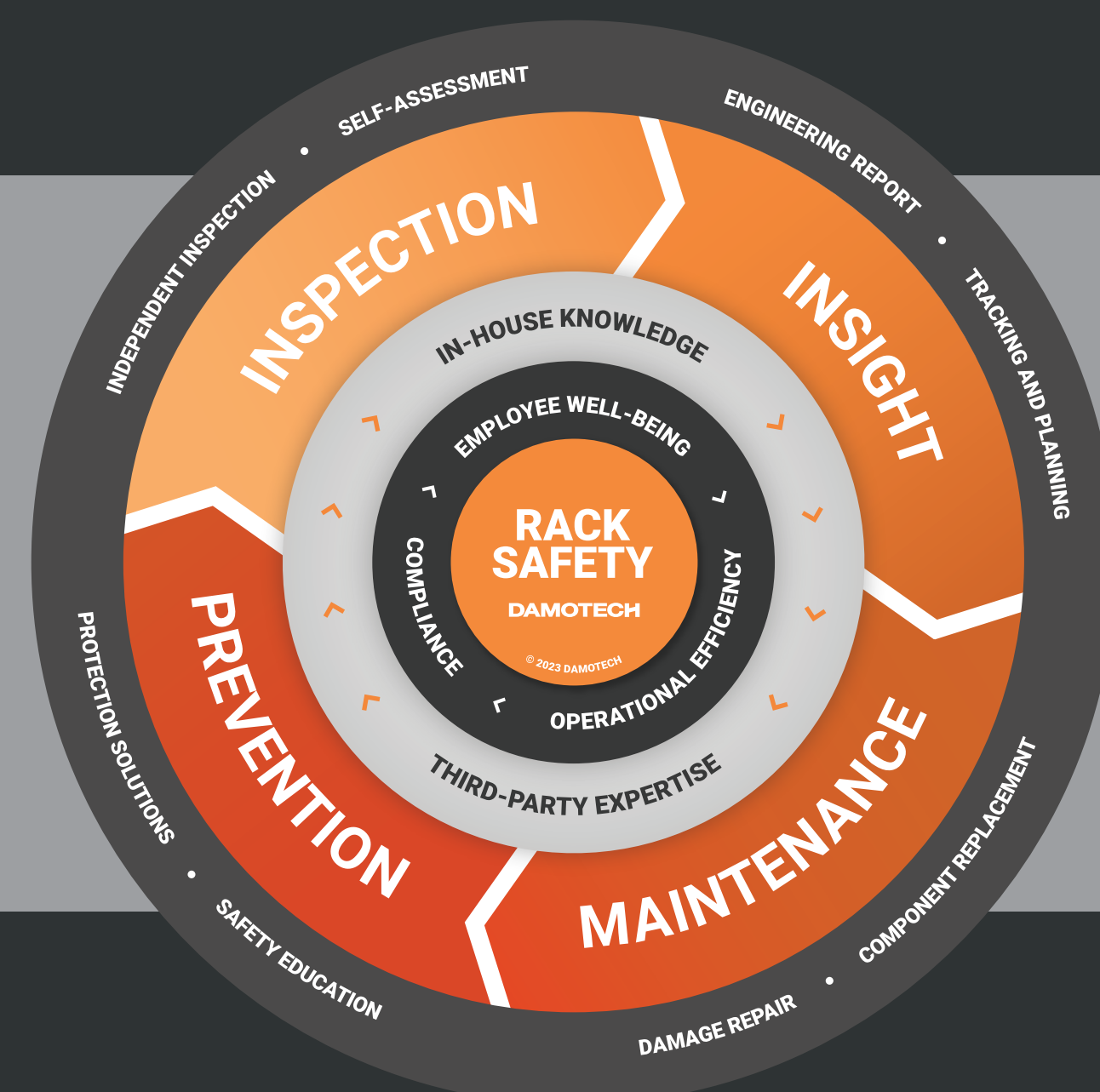
LOAD CAPACITY



Labels/plaques informing of maximum load capacity should be visible. Unknown load capacities need to be calculated by an **engineer**.



Use the
RACK SAFETY FLYWHEEL
to make your warehouse safer



DAMOTECH

RACK REPAIR + PROTECTION | COMPLIANCE INSPECTION | LOAD CAPACITY CALCULATION | RACK MANAGEMENT SOFTWARE