



# RACK CHECKING GUIDELINES

## 12 Things to look for in monthly in-house rack inspections.

1. Front Post Impact Damage
2. Rear Post Impact Damage
3. Front Beam Impact Damage
4. Rear Beam Impact Damage
5. All Beam to Post Connectors fully Engaged
6. All Safety clips in place and secure.
7. Diagonal Frame Brace Damage
8. Horizontal Frame brace Damage
9. Poorly Placed Pallets
10. Damaged Pallets
11. Damaged post protectors.
12. Any evidence of overloading.

### ***Inspection Process.***

A ground level inspection is all that is required, checking each and every item as listed. The tolerances for damage are shown in the diagrams below, using a 1 mtr straight edge as a reference on the posts or bracing. The floor should be level enough for checking beam deflection is to be noted that some components at the higher levels will not be visible due to shelf loadings and load positions. In the normal course of events the parts not visible are at a low risk of damage, and even if damage is present, it is not likely to compromise the racking's integrity. Any damage or issues should be listed on the inspection sheet with the location being noted. The code requires any issues to be addressed within 4 weeks. The levels of risk are;

#### **Green.**

Is noted as Damage, Fault or Defect, and requires surveillance or regular monitoring. It does not require repair, replacement or reduction in loading

#### **Orange**

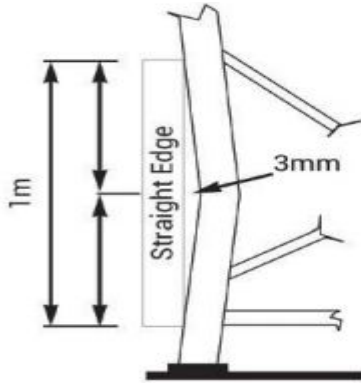
Is damage, Fault or Defect, not regarded as imminent danger, but is noted as requiring action within 4 weeks. After 4 weeks this is regarded as Red Stickered. It does not require immediate unloading, but when the load is removed the immediate area must be isolated to prevent it from reloading until repaired or replaced.

#### **Red:**

Very serious Damage/Defect, outside acceptable limits. This condition requires immediate action, if this cannot be addressed, the adjacent loads must be removed and the immediate area deemed unsafe until the required work is completed.

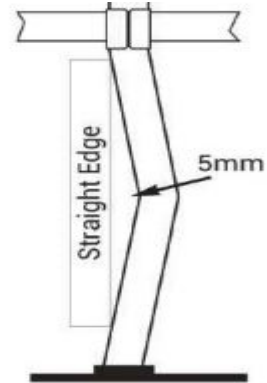
Repairs need to be done to a sufficient standard in keeping with the original manufacturer's standard/specification. Any repairs will be checked for compliance in subsequent inspections.

**Quote from AS 4084-2012. 8.5.1** *“The damage assessment in figs 1 – 4 applies only to damage that produces an overall bend in a member, These limits do not apply to highly localised damage such as dents, buckles tears and splits. Members subjected to tears and splits shall be replaced.”*



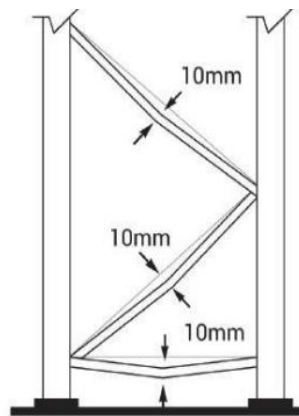
**Front Impact (a)**

Fig 1



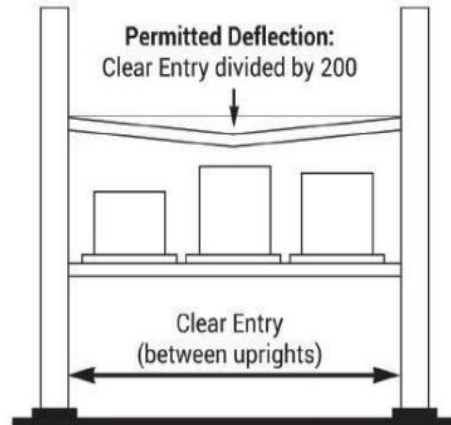
**Side Impact (b)**

Fig 2



**Horizontal & Diagonal Bracing**

Fig 3



**Beam Deflection**

Fig 4

