Technical Service Bulletin

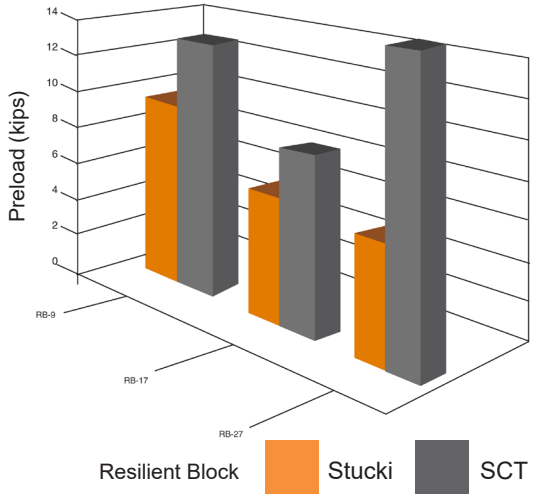
OEM RB BLOCKS

A.STUCKI COMPANY

IS MORE SIDE BEARING PRELOAD BETTER?

Is more actually better ?

Laboratory testing clearly shows that's certainly NOT the case with Constant Contact Side Bearings. Non-OEM RB blocks provide potentially dangerous initial increases in SB preloads which can suspend the Freight Car Body out of the center bowl with loads shown to the right, providing over twice as much vertical force than its original design called for. This condition can lead to violation of AAR M948 Section 2.2.2 causing centerplate lift, impede truck steering, causing poor track negotiation. Stucki resilient blocks are specially designed to control design maximum and minimum preloads for SAFE operating ranges. Any use of non-Stucki RB blocks in Stucki cages voids any warranty and support for the parts involved and any truck or car damage sustained as a result.



Initial Preload of Stucki RB9, RB17, and RB27's vs. SCT9, SCT17, and SCT27 *before* Vertical Fatigue Testing

NON-OEM RISKS AND DANGERS

Preloads too High	• **Violates AAR M948 Sec 2.2.2** • **Poor centerplate to center bowl contact** • **Car Body Lift; not enough weight in bowl**
Uncontrolled Preload Range	• **Truck turning restraint impeded** • **Poor track negotiation**
High Initial Stiffness	• **Parts not originally designed for this system** • **Complete SB performance effect complete truck performance**
Uncontrolled Quality	• **For nonrelated system designs yield unpredictable dynamic results**
Voids Warranty	• **All Stucki support and warranty for cages and any resulting performance are null and void**

A. STUCKI
Side Bearing Designs
are a
Carefully Controlled Quality Package
for Safe
Optimum Performance

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TECHNICAL SPECIFICATIONS

Initial Laboratory Test	Dangerously high maximum initial preloads exceed safe levels.
AAR M948 Severe Service Wear Test	Load levels undergo severe and rapid decay after 69hrs. of testing. Losses to the horizontal restraint levels far underperform compared to Stucki hunting performance standards
“0” Levels	The side bearing truck hunting threshold resistance provides a “zero” effect.
Non-OEM RB Block	The side bearing ceases to perform and rides along as an “ornamental” fixture, completely ineffective.
High Life Cycle Cost	From exceedingly high preloads to total lack of truck hunting control, replacement intervals become higher. Why take risks using inferior components at the sacrifice of your railcar fleet?

Don’t be fooled by ***“ornamental”*** truck parts that just go along for the ride!
Buy **value, performance,** and **safety** with the **BEST Stucki Shear Side Bearings.**

Hunting Hysteresis
AFTER 69hrs
AAR M948 SSW Test

Data Based on
Longitudinal Cycle
of +/- 1/8” @ 3 Hz
Normalized to 0.6
Friction Coefficient