

PERFORMANCE TEST

Rail brakes are parking devices which employ serrated brake shoe from hardened tool steel (static braking) or soft shoe from friction material for static as well as dynamic braking in emergency situation. Force applied on the top of the rail depends upon spring force available and the spring stroke length (travel). Does the Industry have a standard to verify if the brakes are actually doing the job? Is there applied force on the rail?

On a request, we can complete full performance test at the field.

So called "Push Down Test" is completed on actual rail brake. The following data was collected:

- Air-gap between rail and shoe
- Backpressure at brake set position
- Brake release pressure
- Rail vertical movement when brake set
- Rail vertical movement when brake set with air-gap filled with shims (increased push-down force)
- "Paper" tests performed to evaluate brake shoes condition.

Brake pushdown force and expected braking force are calculated based on collected data.

Spring Stroke Length Measurement



Rail Sagging Measurement

