

Once impacted, the end stop dissipates the energy in a controlled manner, reducing initial force and deceleration levels through a combination of both gas-hydraulic buffers and the sliding action of the friction shoes which grip onto the rail profileg.

Product details

- Fitted with Oleo gas-hydraulic buffer suitable for the application
- Multiple buffers fitted in parallel for side buffer impacts
- Frame size and shape dependent on specification and coupling interface
- Friction shoes installed directly to the rail profile and also detached from the main end stop frame
- 50kN of braking force per pair of friction shoes
- Number of friction shoes dependent on the train mass, impacting speed and required deceleration



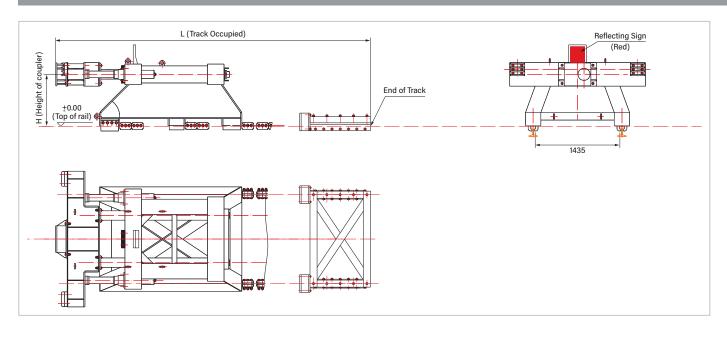


Product advantages

- Each gas-hydraulic buffer is optimised based on the specification to offer maximum protection to passengers, rolling stock and infrastructure
- Gas-hydraulic buffers designed to absorb low energy impacts without sliding – reduces need to reset device
- Minimal maintenance required
- Controlled and reduced sliding distances for high velocity impacts
- Purely mechanical device no power or manual control required
- Suitable for a wide range of rail profiles
- Simple resetting procedure
- Long service life
- Additional configuration options available including electrical insulation, paint finish and galvanisation

Site supervision and training provided by Oleo professional engineers for the installation of end stops

Hydraulic Friction End Stop Designs Example Application – Large Frame for High Speed



- Contains one pair of anti-climber shoes, two Oleo Type
 9 hydraulic buffers and one set of XCD fixed stop
 friction shoes.
- Impacting point from the top of the rail (coupler height): mm (720 – 660 – 824)

Examples for conditions and installation length:

(1) 8 Cars

- For cars with passengers. Train mass 510t, Impacting speed 25km/h, Installation length 25m, Impact capacity: 448kJ Recoverable Stroke: 400mm
- For cars without passengers testing line Train mass: 300t, Impacting speed: 25km/h, Installation length: 18m, Impact capacity: 448kJ Recoverable Stroke: 400mm
- For cars with passengers. Train mass: 510t, Impacting speed: 15km/h, Installation length:15m, Impact capacity: 448kJ Recoverable Stroke: 400mm

(2) 6 Cars

- For cars with passengers. Train mass: 380t, Impacting speed: 25km/h, Installation length: 15m, Impact capacity: 448kJ, Recoverable Stroke: 400mm.
- For cars without passengers testing line. Train mass: 220t, Impacting speed: 25km/h, Installation length: 15m, Impact capacity: 448kJ Recoverable Stroke: 400mm.
- For cars with passengers. Train mass: 380t, Impacting speed: 15km/h, Installation length: 15m, Impact capacity: 448kJ Recoverable Stroke: 400mm.







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