

105MM CRASH BUFFER

MIN. 400kJ

Innova
systems & technologies

REFERENCES

EN 15551 ; UIC 526-1 ; UIC 573
2013/321/EC (TSI) ; Compliance to RID TE 22)

APPLICATIONS

Freight wagons, RID TE 22 tank cars
Locomotives

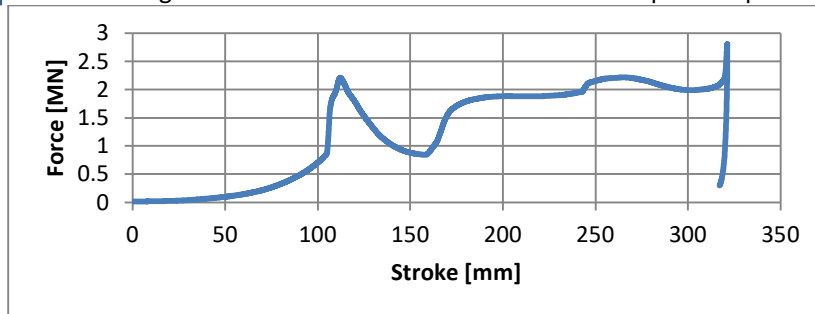
CONCEPT

elastic deformation at impact speeds <12 km/h and forces <1.5 MN

elastic + plastic deformation at impact speeds >12 km/h and forces >1.5 MN

average deformation force level per buffer 1.8 – 2.14 MN per buffer

Works as a regular but shorter Cat. A buffer after consumption of plastic travel



- Depending on vehicle, IST-34 extends the sustainable impact speed (with no damage to wagon and cargo) up to 40 km/h.
- Average deformation force level per buffer 1.3 – 1.8 MN (adjustable to end user required energy absorbing capacity per buffer or vehicle end)

MAIN CHARACTERISTICS

Travel

Elastic Travel: 105 mm

Plastic Travel: min. 215 mm

Stored Energy

- **elastic deformation:** min. 30 kJ
(Optional 35kJ, 40kJ)

- **elastic + plastic deformation:** min. 400 kJ

Masa: cca. 100 kg

BUFFER HEAD

Material

- type I: S355

- type II: S355 + wearing plate

Dimensions

- standard: 340mm x 450mm

- option1: 340mm x 550mm

- option 2: other dimensions and shape (Spain, Portugal, Nordics, other)

SHOCK ABSORBER

A category thermoplastic elastomer

EC Type Examination Certificate (TSI) No :

1370/5/ISP/14/RST/EN/176

NoBo : Bureau Veritas, Italy. 2014

TECHNICAL ENQUIRIES

INNOVA Systems & Technologies
Str. Poetului nr. 1C, Hala 22B
310356 Arad, Romania

www.INNOVA-SysTech.com

CERTIFICATIONS

COMMISSION REGULATION (EU) 321/2013/EC of 13 March 2013 concerning the technical specification for interoperability relating to the subsystem 'rolling stock-freight wagons' of the rail system in the European Union as amended by [1236/2013/EC] and [924/2015/EC] in combination with those harmonized standards, voluntary standards (or parts thereof), other European or national rules authorized by TSI's and alternative solutions as identified audit report. 2010/713/EC/ Commission Decision on modules for the procedures for assessment of conformity, suitability for use and EC verification to be in the technical specifications for interoperability adopted under Directive 2008/57/EC of the Parliament and of the Council.

