

DIN EN 15839:2016-01 (E)

Railway applications - Testing for the acceptance of running characteristics of railway vehicles - Freight wagons - Testing of running safety under longitudinal compressive forces (includes Amendment A1:2015)

Contents

Page

European foreword	3
Introduction	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Deviations from requirements	6
5 Evaluation of the torsional coefficient of a car body c_{*t}	7
6 Condition for dispensation from tests or calculations regarding the safety against derailment on twisted track	7
7 Proof of the endurable longitudinal compressive force by propelling tests	7
7.1 General	7
7.2 Conditions for dispensation from tests	7
7.2.1 General	7
7.2.2 2-axle wagons	8
7.2.3 Permanently coupled units consisting of two 2-axle wagons	9
7.2.4 Wagons with 2-axle bogies	9
7.3 Conditions for the execution and evaluation of propelling tests for the determination of the endurable longitudinal compressive force of freight wagons with side buffers	11
7.3.1 Test Track	11
7.3.2 Test train	12
7.3.3 Execution of the tests	14
7.3.4 Measured values	15
7.3.5 Evaluation criteria used to evaluate the endurable longitudinal compressive force	16
7.3.6 Analysis	16
7.3.7 Documentation of results	17
Annex A (normative) Symbols	19
Annex B (normative) Design characteristics of standardised interface of permanent coupled units with diagonal buffers for dispensation from propelling tests	20
Annex C (informative) Tests for determination of the torsional coefficient c_{*t} of a car body	21
C.1 Force-deflection measurement directly at the car body	21
C.2 Force-deflection measurement at the contact points between wheel and rail after blocking of the suspension(s) between wheelset (bogie frame) and car body	22
Bibliography	24