

DIN EN 15179:2010-12 (E)

Railway applications - Braking - Requirements for the brake system of coaches

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	8
4	Symbols and abbreviations	10
5	Requirements	11
5.1	General	11
5.2	Climatic conditions	11
5.3	Brake control	11
5.3.1	Basic principles	11
5.3.2	Components of the basic system	12
5.3.3	Additional braking devices	16
5.4	Thermal capacity	17
5.4.1	Principles	17
5.4.2	Disc brake	17
5.4.3	Tread brake	18
5.4.4	Dynamic brakes	18
5.5	Brake performance	18
5.5.1	General	18
5.5.2	Brake positions (basic system)	18
5.5.3	Brake positions and additional brake system	19
5.6	Other brake components	19
5.6.1	Parking brake	19
5.6.2	Arrangement of components at the end of the coach	20
5.6.3	Brake inscriptions and braked weight inscriptions	20
5.7	Other specifications	21
5.7.1	Maintenance, accessibility	21
5.7.2	Fault finding	21
5.7.3	Operating conditions	21
5.7.4	Special requirements for multi-section coaches (modular passenger train)	22
5.7.5	Requirements for equipment fitted at driving positions in driving trailers	22
5.8	Requirements for internal traffic in the United Kingdom	22
Annex A (normative) Brake system of vehicles with UIC air brake		23
Annex B (normative) Common train configurations		25
Annex C (informative) Drainage devices, valves		26
Annex D (informative) Equipment fitted at driving positions in driving trailers		30
Annex E (normative) Requirements for internal traffic in the United Kingdom		32
E.1	General	32
E.2	Normative references	32

E.3	Brake systems other than those covered by the requirements of UIC	32
E.4	Functions at train level	33
E.5	Functions at vehicle level	33
E.5.1	Brake command and control	33
E.5.2	Brake force application system	34
E.6	Braking performance	34
E.6.1	General	34
E.6.2	Braking performance of trains operating on UK infrastructures	35
Annex F (informative) Functional representation of the EBO system of the DB		36
F.1	Introduction	36
F.2	Design of the emergency brake override in conjunction with electro-pneumatic brake control	36
F.2.1	Electro-pneumatic brake control (ep)	36
F.2.2	Emergency brake override (EBO)	36
F.3	Transmission systems for information and control commands in the DB system	37
Annex G (informative) Emergency brake handles		40
Annex H (informative) Basic arrangement of the brake system and arrangement of the brake pipes		41
Bibliography		47