

DIN EN 17682:2023-11 (E)

Railway applications - Infrastructure - Resilient element for floating slab system

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	7
3	Terms and definitions	7
4	Symbols and abbreviations	9
5	Loads applied to the REFS	11
6	Samples dimensions	12
7	Design approval tests and routine tests	12
7.1	General	12
7.2	Summary of design approval and routine tests	13
7.3	Requirements for specifications	13
7.3.1	Dimensions and mass	13
7.3.2	Static and dynamic vertical bedding modulus determined with flat plate (FP)	14
7.3.3	Acoustic bedding modulus	14
7.3.4	Fatigue test	16
7.3.5	Static horizontal bedding modulus	16
7.3.6	Water and climatic resistance of REFS	17
7.3.7	Ageing test with high temperatures	17
8	Data to be supplied	17
8.1	General	17
8.2	Data supplied by the purchaser (prior to the project design approval tests)	17
8.3	Data supplied by the supplier (after the project design approval tests and prior to first start-up of production)	18
9	Quality control	18
10	Marking, labelling and packaging	19
Annex A (normative) Flat plate (FP) -- Design of the FP		20
Annex B (normative) Data sheet		21
Annex C (normative) Bedding modulus and stiffness measurement determined with FP		22
C.1	Static test procedure	22
C.2	Dynamic test procedure	26
Annex D (normative) Fatigue test		29
D.1	Principle	29
D.2	Apparatus	29
D.3	Procedure	29

D.4	Test report	30
Annex E (informative) Static horizontal bedding modulus		31
E.1	Principle	31
E.2	Apparatus	31
E.3	Procedure	31
E.4	Test report	33
Annex F (informative) Water and climatic resistance		35
F.1	Principle	35
F.2	Apparatus	35
F.3	Procedure	35
F.4	Test report	37
Annex G (informative) Ageing test with high temperatures		38
G.1	Principle	38
G.2	Apparatus	38
G.3	Procedure	38
G.4	Test report	39
Bibliography		40