

DIN EN 13108-1:2016-12 (E)

Bituminous mixtures - Material specifications - Part 1: Asphalt Concrete

Contents		Page
European foreword		4
Introduction		6
1	Scope	7
2	Normative references	7
3	Terms, definitions, symbols and abbreviations	8
3.1	Terms and definitions	8
3.2	Symbols and abbreviations	11
4	Requirements for constituent materials	11
4.1	General	11
4.2	Binder	11
4.2.1	General	11
4.2.2	Selection of binder	11
4.3	Aggregates	13
4.3.1	Coarse aggregate	13
4.3.2	Fine aggregate	13
4.3.3	All-in aggregates	13
4.3.4	Added filler	13
4.4	Reclaimed asphalt	13
4.5	Additives	13
5	Requirements for the mixture	14
5.1	General	14
5.2	Composition, grading, binder content	14
5.2.1	Composition	14
5.2.2	Grading	14
5.2.3	Minimum binder content	16
5.3	Properties	17
5.3.1	Specimens	17
5.3.2	Void content requirements	17
5.3.3	Water sensitivity	21
5.3.4	Resistance to abrasion by studded tyres	22
5.3.5	Resistance to permanent deformation	23
5.3.6	Stiffness	27
5.3.7	Resistance to fatigue	29
5.3.8	Saturation Ageing Tensile Stiffness conditioning test (Mixture SATS Durability Index)	30
5.3.9	Low temperature properties	30
5.3.10	Fracture toughness	31
5.3.11	Friction after polishing	32
5.3.12	Coating and homogeneity	33
5.3.13	Reaction to fire	33
5.3.14	Marshall values for application on airfields	33
5.3.15	Resistance to fuel for application on airfields	35
5.3.16	Resistance to de-icing fluid for application on airfields	36
5.4	Temperature of the mixture	37
5.5	Regulated dangerous substances	37
5.6	Conflicting requirements	37

6	Assessment and verification of constancy of performance -- AVCP	38
7	Identification	38
Annex A (normative) Calculations of the penetration or the softening point of the binder of a mixture when reclaimed asphalt is used		40
A.1	General	40
A.2	Calculation of the penetration of the binder of a mixture	40
A.3	Calculation of the softening point of the binder of a mixture	40
Annex ZA (informative) Relationship of this European Standard with Regulation (EU) No. 305/2011		42