

# DIN EN 13108-20:2006-07 (E)

## Bituminous mixtures - Material specifications - Part 20: Type Testing

---

	Contents	Page
Foreword .....	4	
Introduction .....	5	
1 Scope .....	6	
2 Normative references .....	6	
3 Terms and definitions .....	8	
4 Requirements .....	8	
4.1 Type Testing .....	8	
4.2 Validity .....	9	
5 Constituent materials .....	9	
6 Mixed asphalt .....	10	
6.1 General .....	10	
6.2 Application .....	10	
6.3 Sampling and testing .....	10	
6.4 Mixed asphalt composition .....	10	
6.5 Mixed asphalt sample preparation .....	10	
7 Type Test report .....	11	
7.1 General .....	11	
7.2 Constituents .....	11	
7.3 Mix formulation .....	12	
7.4 Temperatures .....	12	
7.5 Test results .....	12	
Annex A (normative) Summary of properties and test methods for constituent materials .....	13	
Annex B (normative) Summary of properties and test methods for bituminous mixtures .....	14	
B.1 Asphalt Concrete (EN 13108-1) .....	14	
B.2 Very Thin Asphalt Concrete (EN 13108-2) .....	15	
B.3 Soft Asphalt (EN 13108-3) .....	16	
B.4 Hot Rolled Asphalt (EN 13108-4) .....	17	
B.5 Stone Mastic Asphalt (EN 13108-5) .....	17	
B.6 Mastic asphalt (EN 13108-6) .....	18	
B.7 Porous Asphalt (EN 13108-7) .....	19	
Annex C (normative) Methods of sample preparation .....	20	
C.1 General .....	20	
C.2 Compaction energy .....	20	
C.3 Reference density .....	20	
C.4 Compaction degree .....	21	
C.5 Void content .....	21	
Annex D (normative) Test procedures and conditions .....	23	

<b>D.1</b>	<b>Test procedures and conditions .....</b>	<b>23</b>
<b>D.2</b>	<b>Bulk density, maximum density, void content and voids filled with bitumen .....</b>	<b>23</b>
<b>D.3</b>	<b>Water sensitivity .....</b>	<b>23</b>
<b>D.4</b>	<b>Resistance to abrasion by studded tyres .....</b>	<b>23</b>
<b>D.5</b>	<b>Bitumen aggregate affinity .....</b>	<b>23</b>
<b>D.6</b>	<b>Resistance to permanent deformation by wheel-tracking test .....</b>	<b>24</b>
<b>D.7</b>	<b>Resistance to permanent deformation - Deformation strain in triaxial compression .....</b>	<b>24</b>
<b>D.8</b>	<b>Stiffness .....</b>	<b>25</b>
<b>D.9</b>	<b>Fatigue .....</b>	<b>25</b>
<b>D.10</b>	<b>Marshall test for application on airfields .....</b>	<b>25</b>
<b>D.11</b>	<b>Resistance to fuel for application on airfields .....</b>	<b>26</b>
<b>D.12</b>	<b>Resistance to de-icing fluid for application on airfields .....</b>	<b>26</b>
<b>D.13</b>	<b>Binder drainage .....</b>	<b>26</b>
<b>D.14</b>	<b>Indentation and resistance to permanent deformation of mastic asphalt .....</b>	<b>26</b>
<b>D.15</b>	<b>Permeability .....</b>	<b>26</b>
<b>D.16</b>	<b>Particle loss of porous asphalt .....</b>	<b>26</b>
<b>Annex E (informative) Special requirements for airfields .....</b>		<b>27</b>