

# DIN EN 13877-2:2024-05 (E)

## Concrete pavements - Part 2: Functional requirements for concrete pavements

---

<b>Contents</b>		<b>Page</b>
European foreword .....		3
<b>1</b>	<b>Scope .....</b>	<b>5</b>
<b>2</b>	<b>Normative references .....</b>	<b>5</b>
<b>3</b>	<b>Terms, definitions, symbols and abbreviated terms .....</b>	<b>5</b>
<b>3.1</b>	<b>Terms and definitions .....</b>	<b>5</b>
<b>3.2</b>	<b>Symbols and abbreviated terms .....</b>	<b>6</b>
<b>4</b>	<b>Functional requirements for concrete pavements .....</b>	<b>7</b>
<b>4.1</b>	<b>General .....</b>	<b>7</b>
<b>4.2</b>	<b>Strength of concrete pavements .....</b>	<b>7</b>
<b>4.2.1</b>	<b>General .....</b>	<b>7</b>
<b>4.2.2</b>	<b>Core compressive strength .....</b>	<b>8</b>
<b>4.2.3</b>	<b>Core tensile splitting strength or tensile strength on cylindrical discs .....</b>	<b>9</b>
<b>4.3</b>	<b>Thickness of concrete pavements .....</b>	<b>11</b>
<b>4.3.1</b>	<b>General .....</b>	<b>11</b>
<b>4.3.2</b>	<b>Method 1 (from cores) .....</b>	<b>11</b>
<b>4.3.3</b>	<b>Method 2 (by a non-destructive method) .....</b>	<b>11</b>
<b>4.4</b>	<b>Freeze-thaw resistance .....</b>	<b>11</b>
<b>4.5</b>	<b>Wear resistance of concrete pavements to studded tyres .....</b>	<b>11</b>
<b>4.6</b>	<b>Bond strength between two concrete layers .....</b>	<b>12</b>
<b>4.7</b>	<b>Dowels and tie bars .....</b>	<b>12</b>
<b>4.7.1</b>	<b>Dowels .....</b>	<b>12</b>
<b>4.7.2</b>	<b>Tie bars .....</b>	<b>12</b>
<b>4.8</b>	<b>Resistance against fuel and oil penetration .....</b>	<b>13</b>
<b>5</b>	<b>Categories of quality controls for concrete pavements .....</b>	<b>13</b>
<b>Annex A (informative) Method of evaluating concrete core strength .....</b>		<b>14</b>
<b>Annex B (normative) Functional requirements for penetration in pavements with high risk of exposure to fuel, oil and other chemical liquids .....</b>		<b>15</b>
<b>Bibliography .....</b>		<b>16</b>