

# ISO 10406-2:2008-12 (E)

## Fibre-reinforced polymer (FRP) reinforcement of concrete - Test methods - Part 2: FRP sheets

---

<b>Contents</b>		<b>Page</b>
Foreword .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Definitions and symbols .....</b>	<b>1</b>
<b>3.1</b>	<b>Definitions .....</b>	<b>1</b>
<b>3.2</b>	<b>Symbols .....</b>	<b>4</b>
<b>4</b>	<b>General provision concerning test pieces .....</b>	<b>5</b>
<b>5</b>	<b>Test method for determining tensile properties .....</b>	<b>5</b>
<b>5.1</b>	<b>Test pieces .....</b>	<b>5</b>
<b>5.2</b>	<b>Testing machine and measuring devices .....</b>	<b>9</b>
<b>5.3</b>	<b>Test method .....</b>	<b>9</b>
<b>5.4</b>	<b>Calculation and expression of test results .....</b>	<b>10</b>
<b>5.5</b>	<b>Test report .....</b>	<b>11</b>
<b>6</b>	<b>Test method for overlap splice strength .....</b>	<b>12</b>
<b>6.1</b>	<b>Test pieces .....</b>	<b>12</b>
<b>6.2</b>	<b>Testing machine .....</b>	<b>14</b>
<b>6.3</b>	<b>Test method .....</b>	<b>14</b>
<b>6.4</b>	<b>Calculation and expression of test results .....</b>	<b>14</b>
<b>6.5</b>	<b>Test report .....</b>	<b>15</b>
<b>7</b>	<b>Test method for determining bond properties of fibre-reinforced polymer (FRP) sheets to concrete .....</b>	<b>16</b>
<b>7.1</b>	<b>Test pieces .....</b>	<b>16</b>
<b>7.2</b>	<b>Testing machine and measuring devices .....</b>	<b>20</b>
<b>7.3</b>	<b>Test method .....</b>	<b>20</b>
<b>7.4</b>	<b>Calculation and expression of test results .....</b>	<b>21</b>
<b>7.5</b>	<b>Test report .....</b>	<b>22</b>
<b>8</b>	<b>Test method for direct pull-off strength of FRP sheets with concrete .....</b>	<b>23</b>
<b>8.1</b>	<b>Test pieces .....</b>	<b>23</b>
<b>8.2</b>	<b>Testing machine and measuring devices .....</b>	<b>24</b>
<b>8.3</b>	<b>Test method .....</b>	<b>24</b>
<b>8.4</b>	<b>Calculation and expression of test results .....</b>	<b>25</b>
<b>8.5</b>	<b>Test report .....</b>	<b>25</b>
<b>9</b>	<b>Test method for freeze/thaw resistance .....</b>	<b>26</b>
<b>9.1</b>	<b>Test pieces .....</b>	<b>26</b>
<b>9.2</b>	<b>Testing machine and measuring devices .....</b>	<b>26</b>
<b>9.3</b>	<b>Test method .....</b>	<b>27</b>
<b>9.4</b>	<b>Calculation and expression of test results .....</b>	<b>27</b>
<b>9.5</b>	<b>Test report .....</b>	<b>28</b>
<b>10</b>	<b>Test method for exposure to laboratory light sources .....</b>	<b>29</b>
<b>10.1</b>	<b>Test pieces .....</b>	<b>29</b>
<b>10.2</b>	<b>Testing machine and measuring devices .....</b>	<b>29</b>

10.3	Test method .....	30
10.4	Calculation and expression of test results .....	30
10.5	Test report .....	31
11	Test method for durability .....	32
11.1	Types of test methods for durability .....	32
11.2	Test piece .....	32
11.3	Test method .....	32
11.4	Calculation and expression of test results .....	34
11.5	Test report .....	34