

## BRAKE CIRCUIT IDENTITY CARD

### BRAKES EFFORT

 **MEDIUM**

### TIME SPENT BRAKING

 **30%**

### CIRCUIT LENGTH

 **5,380 M**

### NUMBER OF LAPS

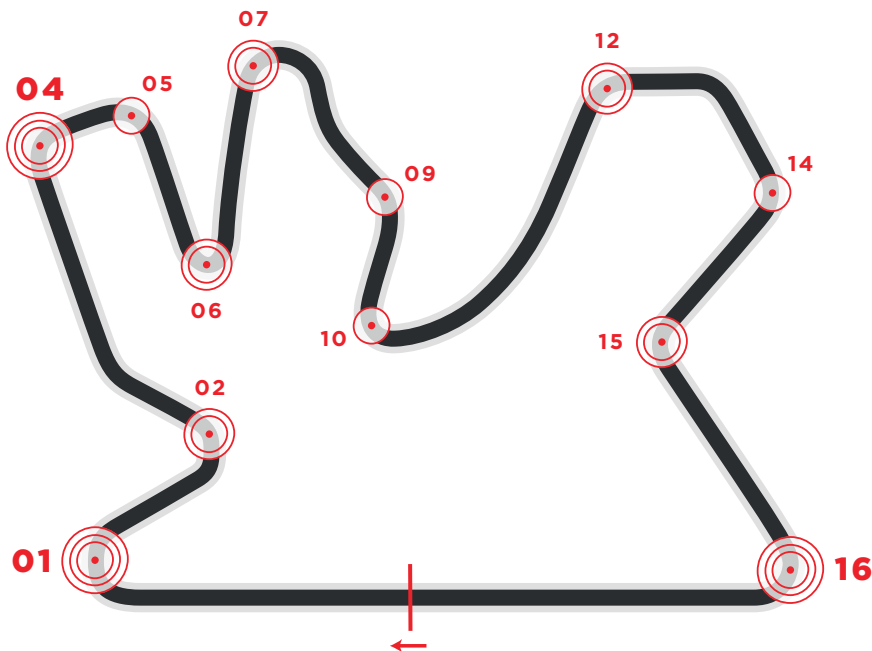
 **22**

### NUMBER OF BRAKE ZONES/LAP

 **12**

### IMPORTANT

**TURN 01\***, **TURN 04\*** and **TURN 16\*** are considered the most demanding for the braking system.



The Losail International Circuit, located just north of Doha, Qatar, is highly demanding on the braking system.

The first turn is quite demanding: in fact, it is one of the most difficult turns in the world and requires the rider to apply 11.2 lbs of force to the lever with a "jump in speed" to 250 km/h (155 mph). As in the past, the GP is held under floodlights, which makes it possible to see the carbon brake discs become incandescent during the more abrupt turns. This phenomenon, even though rather frequent, cannot be seen during the other GP because of the sunlight which makes the chromatic change of the discs following thermal stress must less noticeable.

Should you publish any of the data contained here please quote Brembo as source used.

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 01</b> | Initial speed        | <b>346</b> | (Km/h) |
|                | Final speed          | <b>98</b>  | (Km/h) |
|                | Stopping distance    | <b>263</b> | (m)    |
|                | Braking time         | <b>4.9</b> | (sec)  |
|                | Maximum deceleration | <b>1.5</b> | (g)    |
|                | Max force on lever   | <b>5.1</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 02</b> | Initial speed        | <b>182</b> | (Km/h) |
|                | Final speed          | <b>108</b> | (Km/h) |
|                | Stopping distance    | <b>98</b>  | (m)    |
|                | Braking time         | <b>2.5</b> | (sec)  |
|                | Maximum deceleration | <b>1.1</b> | (g)    |
|                | Max force on lever   | <b>3.5</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 04</b> | Initial speed        | <b>249</b> | (Km/h) |
|                | Final speed          | <b>119</b> | (Km/h) |
|                | Stopping distance    | <b>163</b> | (m)    |
|                | Braking time         | <b>3.3</b> | (sec)  |
|                | Maximum deceleration | <b>1.5</b> | (g)    |
|                | Max force on lever   | <b>4.5</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 05</b> | Initial speed        | <b>141</b> | (Km/h) |
|                | Final speed          | <b>123</b> | (Km/h) |
|                | Stopping distance    | <b>42</b>  | (m)    |
|                | Braking time         | <b>1.1</b> | (sec)  |
|                | Maximum deceleration | <b>0.7</b> | (g)    |
|                | Max force on lever   | <b>1.7</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 06</b> | Initial speed        | <b>191</b> | (Km/h) |
|                | Final speed          | <b>72</b>  | (Km/h) |
|                | Stopping distance    | <b>121</b> | (m)    |
|                | Braking time         | <b>3.4</b> | (sec)  |
|                | Maximum deceleration | <b>1.2</b> | (g)    |
|                | Max force on lever   | <b>4</b>   | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 07</b> | Initial speed        | <b>217</b> | (Km/h) |
|                | Final speed          | <b>97</b>  | (Km/h) |
|                | Stopping distance    | <b>147</b> | (m)    |
|                | Braking time         | <b>3.6</b> | (sec)  |
|                | Maximum deceleration | <b>1.3</b> | (g)    |
|                | Max force on lever   | <b>3.9</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 09</b> | Initial speed        | <b>189</b> | (Km/h) |
|                | Final speed          | <b>134</b> | (Km/h) |
|                | Stopping distance    | <b>96</b>  | (m)    |
|                | Braking time         | <b>2.1</b> | (sec)  |
|                | Maximum deceleration | <b>0.9</b> | (g)    |
|                | Max force on lever   | <b>2.5</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 10</b> | Initial speed        | <b>168</b> | (Km/h) |
|                | Final speed          | <b>99</b>  | (Km/h) |
|                | Stopping distance    | <b>89</b>  | (m)    |
|                | Braking time         | <b>2.4</b> | (sec)  |
|                | Maximum deceleration | <b>1</b>   | (g)    |
|                | Max force on lever   | <b>3.5</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 12</b> | Initial speed        | <b>253</b> | (Km/h) |
|                | Final speed          | <b>155</b> | (Km/h) |
|                | Stopping distance    | <b>146</b> | (m)    |
|                | Braking time         | <b>2.6</b> | (sec)  |
|                | Maximum deceleration | <b>1.4</b> | (g)    |
|                | Max force on lever   | <b>3.8</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 14</b> | Initial speed        | <b>183</b> | (Km/h) |
|                | Final speed          | <b>140</b> | (Km/h) |
|                | Stopping distance    | <b>75</b>  | (m)    |
|                | Braking time         | <b>1.7</b> | (sec)  |
|                | Maximum deceleration | <b>1</b>   | (g)    |
|                | Max force on lever   | <b>2.8</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 15</b> | Initial speed        | <b>206</b> | (Km/h) |
|                | Final speed          | <b>134</b> | (Km/h) |
|                | Stopping distance    | <b>98</b>  | (m)    |
|                | Braking time         | <b>2.1</b> | (sec)  |
|                | Maximum deceleration | <b>1.2</b> | (g)    |
|                | Max force on lever   | <b>3.7</b> | (Kg)   |

|                |                      |            |        |
|----------------|----------------------|------------|--------|
| <b>TURN 16</b> | Initial speed        | <b>247</b> | (Km/h) |
|                | Final speed          | <b>96</b>  | (Km/h) |
|                | Stopping distance    | <b>175</b> | (m)    |
|                | Braking time         | <b>3.9</b> | (sec)  |
|                | Maximum deceleration | <b>1.4</b> | (g)    |
|                | Max force on lever   | <b>4.4</b> | (Kg)   |