



## BRAKE CIRCUIT IDENTITY CARD MARINA BAY STREET CIRCUIT

As they pick their way through the turns and chicanes on the Singapore Street Circuit the drivers are well aware that they will need to put a lot of stress on their single-seater's brakes with more than 20 percent of the time spent on them.

Of the 12 braking sections that characterise this circuit, 5 of them are particularly demanding, and the heated pace and the lack of adequate space for cooling make it one of the hardest on the braking systems.

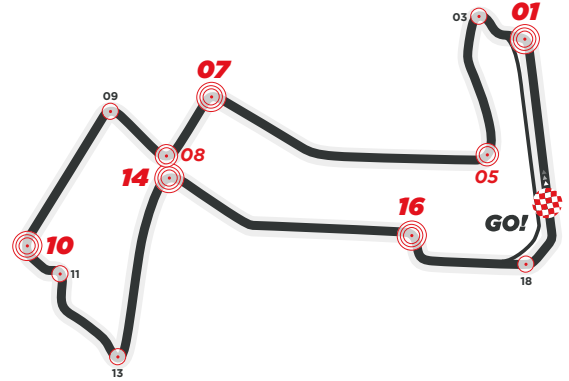
Friction material wear is one of the things that need to be monitored constantly in telemetry during each lap of the race.

SHOULD YOU PUBLISH ANY OF THE DATA CONTAINED HERE PLEASE QUOTE BREMBO AS SOURCE USED.

# FORMULA 1

15-17 SEP 2023 @ SINGAPORE AIRLINES  
SINGAPORE GRAND PRIX

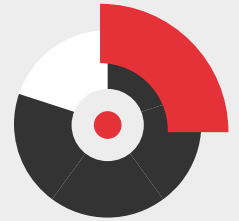
CIRCUIT LENGTH: **4.911 Km**  
NUMBER OF LAPS: **62**



TIME SPENT BRAKING:  
**21%**

**TURN 14\*, TURN 01\*  
& TURN 07\***  
ARE CONSIDERED THE  
MOST DEMANDING FOR THE  
BRAKING SYSTEM

BRAKES EFFORT:  
**HARD**



### 12 BRAKE ZONES / LAP

<b>01</b> TURN	Initial Speed (km/h)	304
	Final Speed (km/h)	139
	Stopping Distance (m)	90
	Braking Time (sec)	1.68
	Maximum Deceleration (g)	4.7
	Maximum Pedal Load (kg)	145
	Braking Power (kW)	2359

<b>03</b> TURN	Initial Speed (km/h)	168
	Final Speed (km/h)	78
	Stopping Distance (m)	50
	Braking Time (sec)	1.52
	Maximum Deceleration (g)	2.8
	Maximum Pedal Load (kg)	88
	Braking Power (kW)	73

<b>05</b> TURN	Initial Speed (km/h)	255
	Final Speed (km/h)	142
	Stopping Distance (m)	67
	Braking Time (sec)	1.30
	Maximum Deceleration (g)	4.1
	Maximum Pedal Load (kg)	123
	Braking Power (kW)	1752

<b>07</b> TURN	Initial Speed (km/h)	299
	Final Speed (km/h)	112
	Stopping Distance (m)	98
	Braking Time (sec)	1.93
	Maximum Deceleration (g)	4.7
	Maximum Pedal Load (kg)	143
	Braking Power (kW)	2326

<b>08</b> TURN	Initial Speed (km/h)	222
	Final Speed (km/h)	86
	Stopping Distance (m)	67
	Braking Time (sec)	1.89
	Maximum Deceleration (g)	4.1
	Maximum Pedal Load (kg)	132
	Braking Power (kW)	1562

<b>09</b> TURN	Initial Speed (km/h)	190
	Final Speed (km/h)	119
	Stopping Distance (m)	52
	Braking Time (sec)	1.23
	Maximum Deceleration (g)	2.8
	Maximum Pedal Load (kg)	79
	Braking Power (kW)	860

<b>10</b> TURN	Initial Speed (km/h)	269
	Final Speed (km/h)	141
	Stopping Distance (m)	73
	Braking Time (sec)	1.43
	Maximum Deceleration (g)	4.7
	Maximum Pedal Load (kg)	147
	Braking Power (kW)	2177

<b>11</b> TURN	Initial Speed (km/h)	186
	Final Speed (km/h)	107
	Stopping Distance (m)	43
	Braking Time (sec)	1.15
	Maximum Deceleration (g)	3.0
	Maximum Pedal Load (kg)	100
	Braking Power (kW)	836

<b>13</b> TURN	Initial Speed (km/h)	216
	Final Speed (km/h)	56
	Stopping Distance (m)	84
	Braking Time (sec)	2.39
	Maximum Deceleration (g)	2.9
	Maximum Pedal Load (kg)	87
	Braking Power (kW)	953

<b>14</b> TURN	Initial Speed (km/h)	290
	Final Speed (km/h)	91
	Stopping Distance (m)	92
	Braking Time (sec)	2.15
	Maximum Deceleration (g)	4.7
	Maximum Pedal Load (kg)	148
	Braking Power (kW)	2273

<b>16</b> TURN	Initial Speed (km/h)	285
	Final Speed (km/h)	107
	Stopping Distance (m)	88
	Braking Time (sec)	1.86
	Maximum Deceleration (g)	4.7
	Maximum Pedal Load (kg)	147
	Braking Power (kW)	2284

<b>18</b> TURN	Initial Speed (km/h)	255
	Final Speed (km/h)	220
	Stopping Distance (m)	31
	Braking Time (sec)	0.49
	Maximum Deceleration (g)	2.4
	Maximum Pedal Load (kg)	39
	Braking Power (kW)	569