

BRAKE CIRCUIT IDENTITY CARD

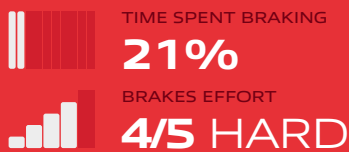
18 MARINA BAY STREET CIRCUIT

4,940 m / 62 laps

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.

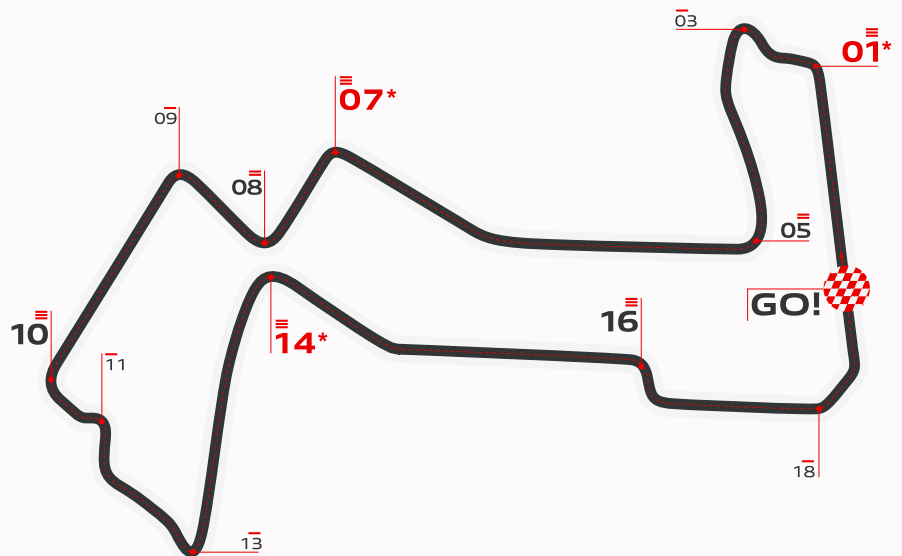


* Turn 14, Turn 07 & Turn 01 are considered the most demanding for the braking system.

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

FORMULA 1 SINGAPORE AIRLINES SINGAPORE GRAND PRIX

Singapore 20th September - 22nd September 2024



TURN 01*

Initial Speed km/h	294
Final Speed km/h	134
Stopping Distance m	91
Braking Time sec	1.66
Maximum Deceleration g	4.6
Maximum Pedal Load kg	144
Braking Power kW	2297

TURN 03

Initial Speed km/h	161
Final Speed km/h	79
Stopping Distance m	51
Braking Time sec	1.62
Maximum Deceleration g	2.8
Maximum Pedal Load kg	96
Braking Power kW	686

TURN 05

Initial Speed km/h	250
Final Speed km/h	150
Stopping Distance m	66
Braking Time sec	1.23
Maximum Deceleration g	4.0
Maximum Pedal Load kg	124
Braking Power kW	1732

TURN 07*

Initial Speed km/h	299
Final Speed km/h	114
Stopping Distance m	103
Braking Time sec	2.04
Maximum Deceleration g	4.6
Maximum Pedal Load kg	146
Braking Power kW	2296

TURN 08

Initial Speed km/h	221
Final Speed km/h	86
Stopping Distance m	70
Braking Time sec	2.00
Maximum Deceleration g	3.9
Maximum Pedal Load kg	129
Braking Power kW	1453

TURN 09

Initial Speed km/h	202
Final Speed km/h	141
Stopping Distance m	50
Braking Time sec	1.11
Maximum Deceleration g	2.4
Maximum Pedal Load kg	64
Braking Power kW	679

TURN 10

Initial Speed km/h	268
Final Speed km/h	144
Stopping Distance m	74
Braking Time sec	1.43
Maximum Deceleration g	4.6
Maximum Pedal Load kg	148
Braking Power kW	2134

TURN 11

Initial Speed km/h	188
Final Speed km/h	114
Stopping Distance m	42
Braking Time sec	1.03
Maximum Deceleration g	3.2
Maximum Pedal Load kg	109
Braking Power kW	941

TURN 13

Initial Speed km/h	227
Final Speed km/h	69
Stopping Distance m	81
Braking Time sec	2.34
Maximum Deceleration g	2.9
Maximum Pedal Load kg	99
Braking Power kW	910

TURN 14*

Initial Speed km/h	288
Final Speed km/h	93
Stopping Distance m	94
Braking Time sec	2.19
Maximum Deceleration g	4.6
Maximum Pedal Load kg	150
Braking Power kW	2239

TURN 16

Initial Speed km/h	291
Final Speed km/h	113
Stopping Distance m	94
Braking Time sec	2.02
Maximum Deceleration g	4.6
Maximum Pedal Load kg	146
Braking Power kW	2243

TURN 18

Initial Speed km/h	255
Final Speed km/h	215
Stopping Distance m	31
Braking Time sec	0.48
Maximum Deceleration g	3.0
Maximum Pedal Load kg	70
Braking Power kW	986