

F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 PETRONAS
MALAYSIA GRAND PRIX

27-29 MAR 2015

SEPANG INTERNATIONAL CIRCUIT (KUALA LAMPUR)

TYPE OF CIRCUIT	MEDIUM
TIME SPENT BRAKING	20%
AVERAGE DECELERATION	3.9 g
BRAKING ENERGY PRODUCED BY A CAR DURING THE GP	108 kWh
TOTAL PEDAL LOAD DURING THE GP	50,624 Kg

HARDER BRAKING

	STOPPING DISTANCE	MAXIMUM PEDAL LOAD
01	142 m	155 Kg
07	94 m	148 Kg
15	142 m	141 Kg

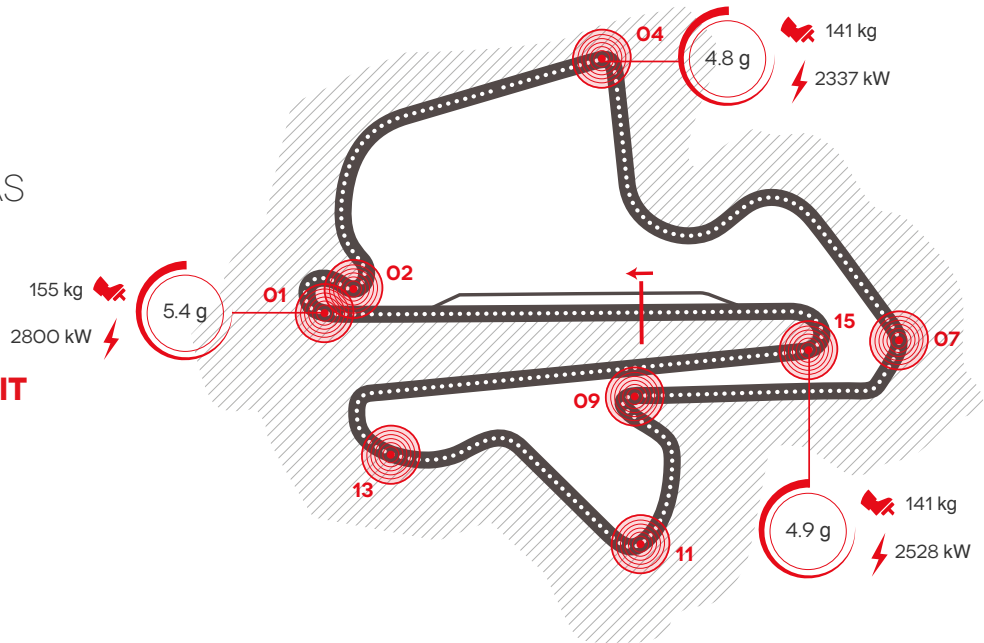
CIRCUIT DATA

Length: 5,543 m
Number of laps: 56
Number of brake zones/lap: 8

COMMENT

Medium difficulty circuit for brakes with the sole exception being the first and last braking section. These are sections which, although characterised by deceleration close to 5 Gs, are preceded by very long straight stretches during which the friction material has plenty of time to cool efficiently. The greatest critical areas have to do with the correct sizing of the air intakes which must allow optimum management of braking system operating temperatures on all the track sections.

*** Turn 01 is considered the most demanding for the braking system.**



01*

Initial speed	324	(Km/h)
Final speed	85	(Km/h)
Stopping distance	142	(m)
Braking time	1.58	(sec)
Maximum deceleration	5.4	(g)
Maximum pedal load	155	(Kg)
Braking power	2800	(Kw)

02

Initial speed	115	(Km/h)
Final speed	70	(Km/h)
Stopping distance	13	(m)
Braking time	0.49	(sec)
Maximum deceleration	1.7	(g)
Maximum pedal load	51	(Kg)
Braking power	327	(Kw)

04

Initial speed	302	(Km/h)
Final speed	100	(Km/h)
Stopping distance	119	(m)
Braking time	1.30	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	141	(Kg)
Braking power	2337	(Kw)

07

Initial speed	277	(Km/h)
Final speed	164	(Km/h)
Stopping distance	94	(m)
Braking time	0.83	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	148	(Kg)
Braking power	2273	(Kw)

09

Initial speed	288	(Km/h)
Final speed	79	(Km/h)
Stopping distance	107	(m)
Braking time	1.23	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	137	(Kg)
Braking power	2194	(Kw)

11

Initial speed	232	(Km/h)
Final speed	137	(Km/h)
Stopping distance	92	(m)
Braking time	0.96	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	74	(Kg)
Braking power	952	(Kw)

14

Initial speed	272	(Km/h)
Final speed	105	(Km/h)
Stopping distance	152	(m)
Braking time	1.62	(sec)
Maximum deceleration	2.3	(g)
Maximum pedal load	58	(Kg)
Braking power	701	(Kw)

15

Initial speed	321	(Km/h)
Final speed	85	(Km/h)
Stopping distance	142	(m)
Braking time	1.59	(sec)
Maximum deceleration	4.9	(g)
Maximum pedal load	141	(Kg)
Braking power	2528	(Kw)