

F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 ROLEX
AUSTRALIAN GRAND PRIX

13-15 MAR 2015

ALBERT PARK (MELBOURNE)

TYPE OF CIRCUIT	HARD
TIME SPENT BRAKING	18%
AVERAGE DECELERATION	4.0 g
BRAKING ENERGY PRODUCED BY A CAR DURING THE GP	258 kWh
TOTAL PEDAL LOAD DURING THE GP	64,322 Kg

HARDER BRAKING

	STOPPING DISTANCE	MAXIMUM PEDAL LOAD
01	113 m	155 Kg
13	108 m	154 Kg
03	122 m	140 Kg

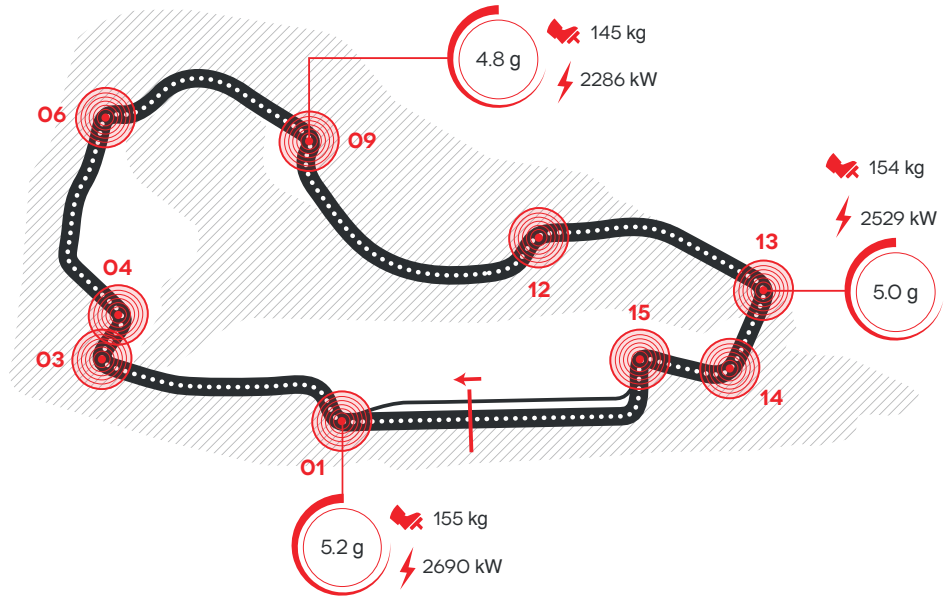
CIRCUIT DATA

Length: 5,303 m
Number of laps: 58
Number of brake zones/lap: 9

COMMENT

Melbourne is an urban track that winds its way through the Albert Park streets. It is a fast track and quite demanding for the brakes. The 9 braking zones on the track are all medium-high level difficulty for the braking systems and are characterised by variable decelerations. Because it is a non-permanent track, during the race weekend it is gradually rubberised, which causes an increase in deceleration and brake stress in terms of wear and temperature.

*** Turn 03 is considered the most demanding for the braking system.**



01

Initial speed	323	(Km/h)
Final speed	143	(Km/h)
Stopping distance	113	(m)
Braking time	2.01	(sec)
Maximum deceleration	5.2	(g)
Maximum pedal load	155	(Kg)
Braking power	2690	(Kw)

03*

Initial speed	313	(Km/h)
Final speed	91	(Km/h)
Stopping distance	122	(m)
Braking time	2.64	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	140	(Kg)
Braking power	2081	(Kw)

04

Initial speed	164	(Km/h)
Final speed	140	(Km/h)
Stopping distance	37	(m)
Braking time	0.88	(sec)
Maximum deceleration	1.0	(g)
Maximum pedal load	19	(Kg)
Braking power	165	(Kw)

06

Initial speed	292	(Km/h)
Final speed	132	(Km/h)
Stopping distance	97	(m)
Braking time	1.88	(sec)
Maximum deceleration	4.2	(g)
Maximum pedal load	131	(Kg)
Braking power	1815	(Kw)

09

Initial speed	294	(Km/h)
Final speed	109	(Km/h)
Stopping distance	103	(m)
Braking time	2.17	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	145	(Kg)
Braking power	2286	(Kw)

12

Initial speed	305	(Km/h)
Final speed	216	(Km/h)
Stopping distance	72	(m)
Braking time	1.05	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	143	(Kg)
Braking power	2344	(Kw)

13

Initial speed	305	(Km/h)
Final speed	127	(Km/h)
Stopping distance	108	(m)
Braking time	2.10	(sec)
Maximum deceleration	5.0	(g)
Maximum pedal load	154	(Kg)
Braking power	2529	(Kw)

14

Initial speed	241	(Km/h)
Final speed	191	(Km/h)
Stopping distance	60	(m)
Braking time	1.02	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	93	(Kg)
Braking power	1205	(Kw)

15

Initial speed	238	(Km/h)
Final speed	86	(Km/h)
Stopping distance	88	(m)
Braking time	2.27	(sec)
Maximum deceleration	3.9	(g)
Maximum pedal load	129	(Kg)
Braking power	1638	(Kw)