



F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 GULF
AIR SAHRAIN GRAND PRIX

17-19 APR 2015

BAHRAIN INTERNAT. CIRCUIT (SAKHIR)

TYPE OF CIRCUIT	HARD
TIME SPENT BRAKING	20%
AVERAGE DECELERATION	4.1 g
BRAKING ENERGY PRODUCED BY A CAR DURING THE GP	130 kWh
TOTAL PEDAL LOAD DURING THE GP	56,316 Kg

HARDER BRAKING

	STOPPING DISTANCE	MAXIMUM PEDAL LOAD
01	158 m	155 Kg
11	110 m	143 Kg
14	122 m	141 Kg

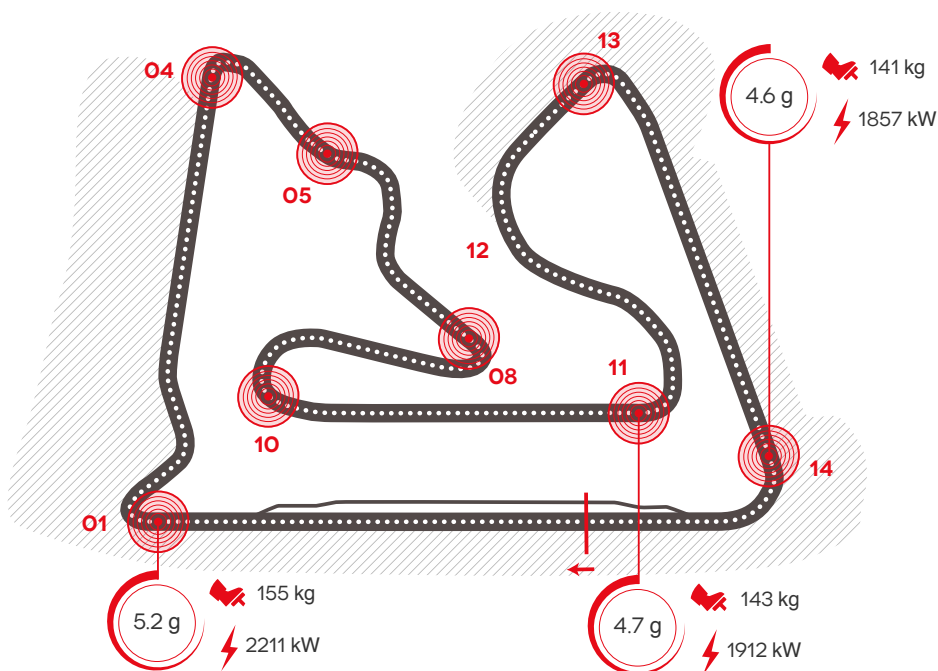
CIRCUIT DATA

Length: 5,412 m
Number of laps: 57
Number of brake zones/lap: 8

COMMENT

Definitely one of the most demanding circuits for brakes. The races on the Sakhir track, surrounded by the desert, are characterised by high temperatures that increase mechanical grip and make it difficult to dissipate the heat generated during braking. This aspect, combined with the presence of numerous high energy braking sections which are quite close together, makes Sakhir a hard test bench for all the braking system components which are continuously stressed by the high energy forces and the hellish hot temperatures. If the drivers want to finish the race, the high wear of the friction material is the biggest danger that must be avoided.

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



01*

Initial speed	328	(Km/h)
Final speed	61	(Km/h)
Stopping distance	158	(m)
Braking time	1.77	(sec)
Maximum deceleration	5.2	(g)
Maximum pedal load	155	(Kg)
Braking power	2211	(Kw)

05

Initial speed	252	(Km/h)
Final speed	164	(Km/h)
Stopping distance	62	(m)
Braking time	0.86	(sec)
Maximum deceleration	3.4	(g)
Maximum pedal load	104	(Kg)
Braking power	1102	(Kw)

10

Initial speed	233	(Km/h)
Final speed	65	(Km/h)
Stopping distance	117	(m)
Braking time	1.57	(sec)
Maximum deceleration	3.1	(g)
Maximum pedal load	91	(Kg)
Braking power	895	(Kw)

13

Initial speed	271	(Km/h)
Final speed	122	(Km/h)
Stopping distance	101	(m)
Braking time	1.19	(sec)
Maximum deceleration	3.8	(g)
Maximum pedal load	118	(Kg)
Braking power	1348	(Kw)

04

Initial speed	301	(Km/h)
Final speed	101	(Km/h)
Stopping distance	124	(m)
Braking time	1.36	(sec)
Maximum deceleration	4.5	(g)
Maximum pedal load	137	(Kg)
Braking power	1785	(Kw)

08

Initial speed	243	(Km/h)
Final speed	70	(Km/h)
Stopping distance	111	(m)
Braking time	1.39	(sec)
Maximum deceleration	3.2	(g)
Maximum pedal load	99	(Kg)
Braking power	995	(Kw)

11

Initial speed	309	(Km/h)
Final speed	127	(Km/h)
Stopping distance	110	(m)
Braking time	1.19	(sec)
Maximum deceleration	4.7	(g)
Maximum pedal load	143	(Kg)
Braking power	1912	(Kw)

14

Initial speed	306	(Km/h)
Final speed	107	(Km/h)
Stopping distance	122	(m)
Braking time	1.32	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	141	(Kg)
Braking power	1857	(Kw)