

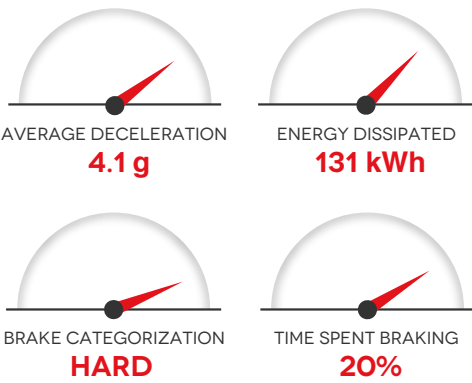


F1 | BRAKE CIRCUIT IDENTITY CARDS

2016 FORMULA 1 GULF
AIR BAHRAIN GRAND PRIX

01-03 APR 2016

BAHRAIN INTERNAT. CIRCUIT (SAKHIR)



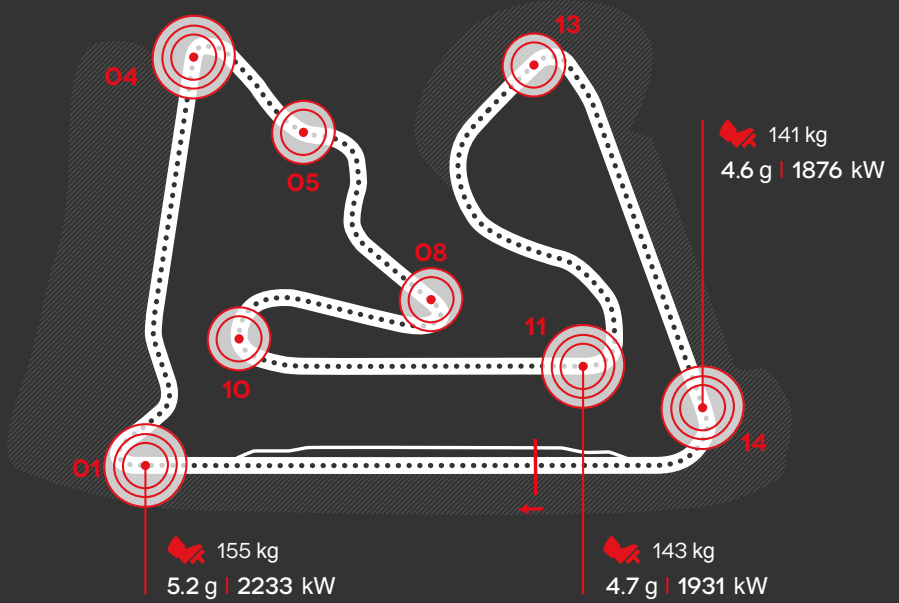
CIRCUIT DATA

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 hellishly 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	333	(Km/h)
Final speed	62	(Km/h)
Stopping distance	156	(m)
Braking time	1.76	(sec)
Maximum deceleration	5.2	(g)
Maximum pedal load	155	(Kg)
Braking power	2233	(Kw)

04		
Initial speed	305	(Km/h)
Final speed	102	(Km/h)
Stopping distance	122	(m)
Braking time	1.35	(sec)
Maximum deceleration	4.5	(g)
Maximum pedal load	137	(Kg)
Braking power	1803	(Kw)

05		
Initial speed	256	(Km/h)
Final speed	166	(Km/h)
Stopping distance	61	(m)
Braking time	0.85	(sec)
Maximum deceleration	3.4	(g)
Maximum pedal load	104	(Kg)
Braking power	1113	(Kw)

08		
Initial speed	247	(Km/h)
Final speed	71	(Km/h)
Stopping distance	109	(m)
Braking time	1.39	(sec)
Maximum deceleration	3.2	(g)
Maximum pedal load	99	(Kg)
Braking power	1005	(Kw)

10		
Initial speed	236	(Km/h)
Final speed	66	(Km/h)
Stopping distance	116	(m)
Braking time	1.56	(sec)
Maximum deceleration	3.1	(g)
Maximum pedal load	91	(Kg)
Braking power	904	(Kw)

11		
Initial speed	314	(Km/h)
Final speed	129	(Km/h)
Stopping distance	109	(m)
Braking time	1.18	(sec)
Maximum deceleration	4.7	(g)
Maximum pedal load	143	(Kg)
Braking power	1931	(Kw)

13		
Initial speed	275	(Km/h)
Final speed	124	(Km/h)
Stopping distance	100	(m)
Braking time	1.18	(sec)
Maximum deceleration	3.8	(g)
Maximum pedal load	118	(Kg)
Braking power	1362	(Kw)

14		
Initial speed	310	(Km/h)
Final speed	108	(Km/h)
Stopping distance	121	(m)
Braking time	1.32	(sec)
Maximum deceleration	4.6	(g)
Maximum pedal load	141	(Kg)
Braking power	1876	(Kw)