

2021 FORMULA 1 GULF AIR BAHRAIN GRAND PRIX

brembo 
26-28 MAR 2021

BRAKE CIRCUIT IDENTITY CARD

BRAKES EFFORT

 **HARD**

TIME SPENT BRAKING

 **18%**

CIRCUIT LENGTH

 **5,412 M**

NUMBER OF LAPS

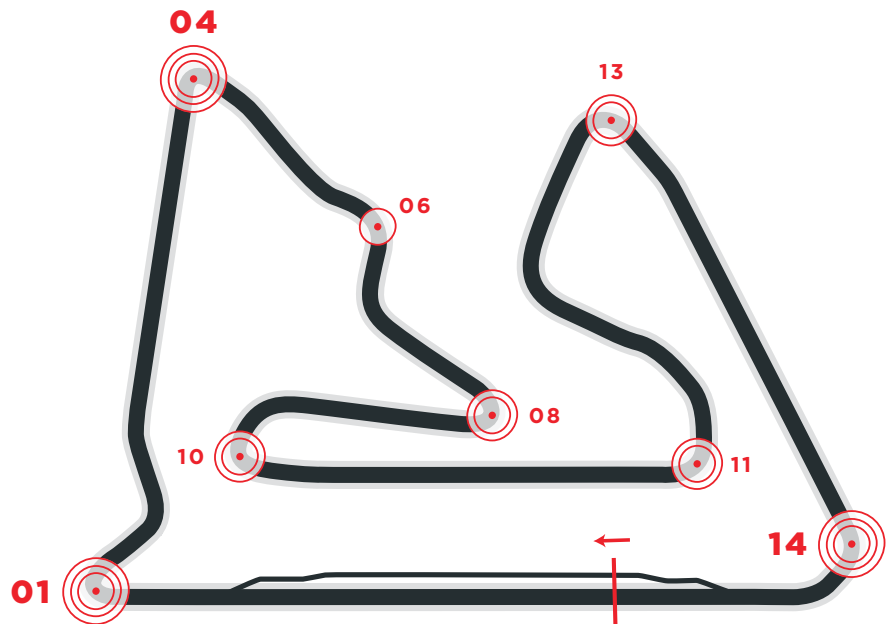
 **57**

NUMBER OF BRAKE ZONES/LAP

 **08**

IMPORTANT

TURN 01*, **TURN 14*** and **TURN 04*** are considered the most demanding for the braking system.



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.

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

01	Initial speed	337	(Km/h)
	Final speed	83	(Km/h)
	Stopping distance	122	(m)
	Braking time	2.44	(sec)
	Maximum deceleration	5.5	(g)
	Maximum pedal load	172	(Kg)
	Braking power	3154	(Kw)

04	Initial speed	301	(Km/h)
	Final speed	133	(Km/h)
	Stopping distance	105	(m)
	Braking time	1.96	(sec)
	Maximum deceleration	4.4	(g)
	Maximum pedal load	111	(Kg)
	Braking power	1924	(Kw)

06	Initial speed	279	(Km/h)
	Final speed	214	(Km/h)
	Stopping distance	63	(m)
	Braking time	0.94	(sec)
	Maximum deceleration	2.4	(g)
	Maximum pedal load	28	(Kg)
	Braking power	387	(Kw)

08	Initial speed	278	(Km/h)
	Final speed	86	(Km/h)
	Stopping distance	122	(m)
	Braking time	2.82	(sec)
	Maximum deceleration	3.8	(g)
	Maximum pedal load	130	(Kg)
	Braking power	1879	(Kw)

10	Initial speed	281	(Km/h)
	Final speed	87	(Km/h)
	Stopping distance	126	(m)
	Braking time	2.79	(sec)
	Maximum deceleration	3.5	(g)
	Maximum pedal load	124	(Kg)
	Braking power	1708	(Kw)

11	Initial speed	320	(Km/h)
	Final speed	178	(Km/h)
	Stopping distance	96	(m)
	Braking time	1.49	(sec)
	Maximum deceleration	4.8	(g)
	Maximum pedal load	89	(Kg)
	Braking power	1688	(Kw)

13	Initial speed	282	(Km/h)
	Final speed	148	(Km/h)
	Stopping distance	89	(m)
	Braking time	1.60	(sec)
	Maximum deceleration	4.0	(g)
	Maximum pedal load	83	(Kg)
	Braking power	1384	(Kw)

14	Initial speed	309	(Km/h)
	Final speed	140	(Km/h)
	Stopping distance	97	(m)
	Braking time	1.72	(sec)
	Maximum deceleration	4.8	(g)
	Maximum pedal load	112	(Kg)
	Braking power	1942	(Kw)