

F1 | BRAKE CIRCUIT IDENTITY CARDS

2015 FORMULA 1 SHELL
BELGIAN GRAND PRIX

21-23 AUG 2015

CIRCUIT DE SPA-FRANCORCHAMPS (SPA-FRANCORCHAMPS)

TYPE OF CIRCUIT	LIGHT
TIME SPENT BRAKING	13%
AVERAGE DECELERATION	4.1 g
BRAKING ENERGY PRODUCED BY A CAR DURING THE GP	101 kWh
TOTAL PEDAL LOAD DURING THE GP	50,160 Kg

HARDER BRAKING

	STOPPING DISTANCE	MAXIMUM PEDAL LOAD
05	119 m	172 Kg
18	139 m	159 Kg
12	99 m	153 Kg

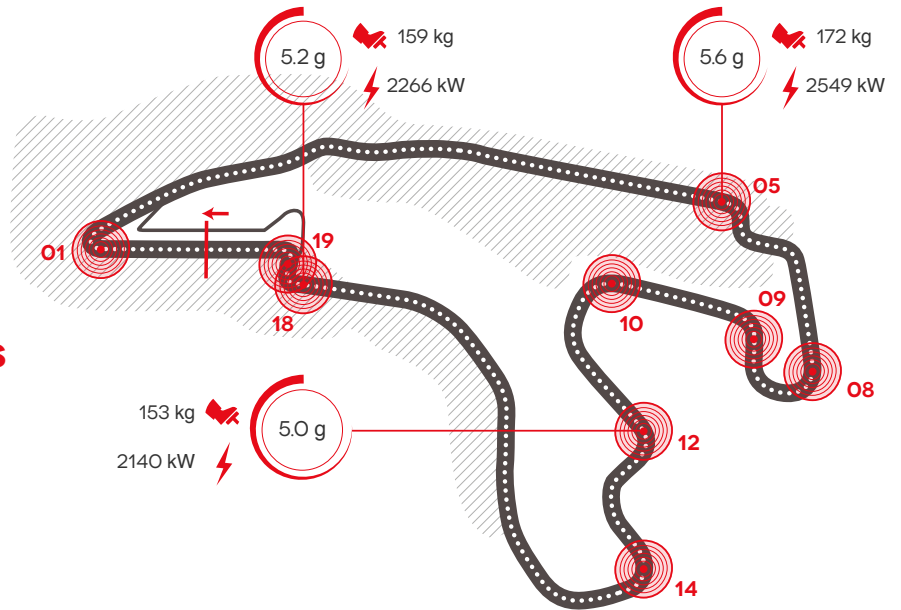
CIRCUIT DATA

Length: 7,004 m
Number of laps: 44
Number of brake zones/lap: 9

COMMENT

At just under seven kilometres, this is the longest track of the season. Despite the presence of two braking sections (the "Les Combes" at the end of the Kemmel straight lines and the "Bus stop" chicane right before the finish line) which are characterised by extremely high energy forces, the rest of the track is rather light on the braking system because it is characterised by fast turns that translate into not-so-demanding braking and ensure excellent cooling of the system itself. Especially in adverse weather conditions, a situation which is quite common in this region, problems connected to excessive cooling can occur.

*** Turn 05 is considered the most demanding for the braking system.**



01

Initial speed	293	(Km/h)
Final speed	71	(Km/h)
Stopping distance	132	(m)
Braking time	1.52	(sec)
Maximum deceleration	4.5	(g)
Maximum pedal load	139	(Kg)
Braking power	1808	(Kw)

08

Initial speed	277	(Km/h)
Final speed	109	(Km/h)
Stopping distance	89	(m)
Braking time	1.06	(sec)
Maximum deceleration	4.1	(g)
Maximum pedal load	131	(Kg)
Braking power	1542	(Kw)

10

Initial speed	305	(Km/h)
Final speed	213	(Km/h)
Stopping distance	26	(m)
Braking time	0.76	(sec)
Maximum deceleration	4.8	(g)
Maximum pedal load	149	(Kg)
Braking power	2000	(Kw)

14

Initial speed	255	(Km/h)
Final speed	136	(Km/h)
Stopping distance	83	(m)
Braking time	1.03	(sec)
Maximum deceleration	3.6	(g)
Maximum pedal load	114	(Kg)
Braking power	1237	(Kw)

19

Initial speed	90	(Km/h)
Final speed	72	(Km/h)
Stopping distance	43	(m)
Braking time	0.84	(sec)
Maximum deceleration	1.1	(g)
Maximum pedal load	38	(Kg)
Braking power	140	(Kw)

05*

Initial speed	336	(Km/h)
Final speed	134	(Km/h)
Stopping distance	119	(m)
Braking time	1.24	(sec)
Maximum deceleration	5.6	(g)
Maximum pedal load	172	(Kg)
Braking power	2549	(Kw)

09

Initial speed	209	(Km/h)
Final speed	146	(Km/h)
Stopping distance	53	(m)
Braking time	0.82	(sec)
Maximum deceleration	2.7	(g)
Maximum pedal load	84	(Kg)
Braking power	686	(Kw)

12

Initial speed	314	(Km/h)
Final speed	150	(Km/h)
Stopping distance	99	(m)
Braking time	1.09	(sec)
Maximum deceleration	5.0	(g)
Maximum pedal load	153	(Kg)
Braking power	2140	(Kw)

18

Initial speed	321	(Km/h)
Final speed	78	(Km/h)
Stopping distance	139	(m)
Braking time	1.51	(sec)
Maximum deceleration	5.2	(g)
Maximum pedal load	159	(Kg)
Braking power	2266	(Kw)