BLOODHOUND SSC

WHAT FORCES AND STRESSES WILL THE CAR (AND ANDY) HAVE TO ENDURE?

www.bloodhoundssc.com

G-FORCE +2 G to - 3 G

As driver **Andy Green** says, "Slowing at **66 mph per second** is a crash in most people's books!"

TEMPERATURE 150 °C

The combined heat of the desert sun, **Cosworth engine**, **EJ200 Jet** and rocket will make the interior extremely hot!

PARACHUTES 9 TONNES

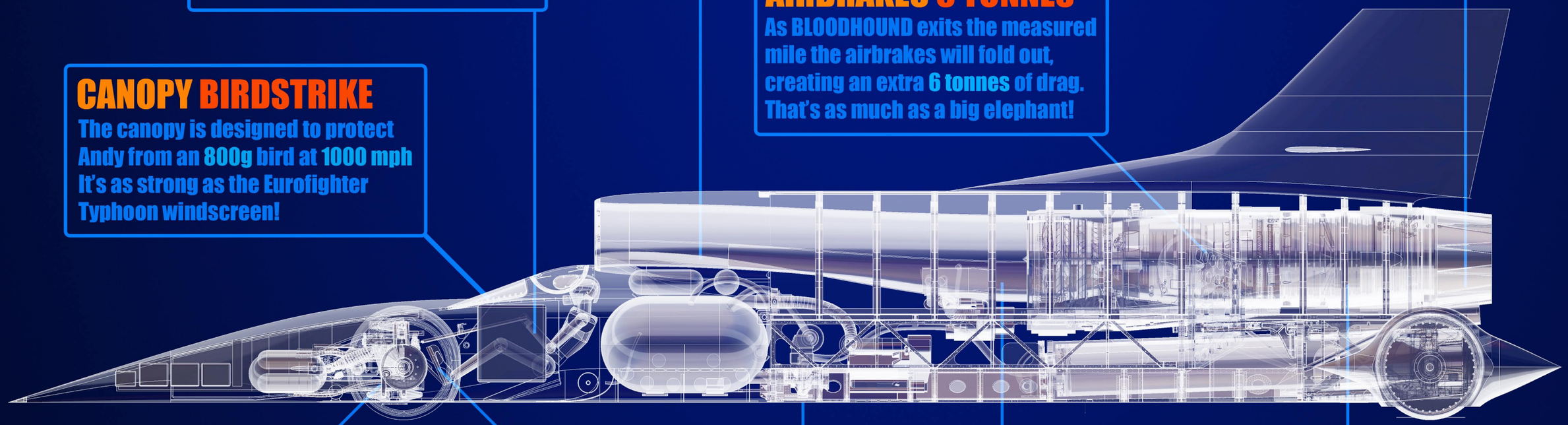
As a backup to the airbrakes the chutes can be used to provide an extra **9 tonnes** of drag. That's more than a double-decker bus!

AIRBRAKES 6 TONNES

As BLOODHOUND exits the measured mile the airbrakes will fold out, creating an extra **6 tonnes** of drag. That's as much as a big elephant!

CANOPY BIRDSTRIKE

The canopy is designed to protect Andy from an **800g** bird at **1000 mph** It's as strong as the Eurofighter Typhoon windscreen!



SUSPENSION 30 TONNES

As the **7.5 tonne** car hurtles across the pan the suspension will be subjected to huge loads - perhaps supporting the weight of a humpback whale!

WHEELS 50,000 G

The solid, **95 kg** aluminium wheels will spin at **10,200 rpm** - **4x** faster than those on a Formula One car!

FLOOR 'SANDBLASTED'

For **12 miles** every run, desert dust will be thrown up at the car - sometimes at **1000 mph**!
The floor is made of steel - other materials would be eaten away!

BODYWORK 12 T/m^2

As the car accelerates the air will exert huge pressure on the structure.

THRUST 21 TONNES

At full power the jet will be providing **90 kN** and the rocket **120 kN** More than eight times the power of an entire Formula One grid!