

High security on wheels

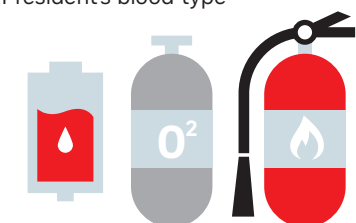
US President Donald Trump and North Korean leader Kim Jong Un will travel in armoured cars during their historic summit in Singapore on June 12. Bulletproof glass, fortified frames that withstand explosives and a fresh-air system – these are the minimum specifications for the high-security vehicles. Here's a look at the kind of protection these cars provide for their very important passengers.

Donald Trump's ride Cadillac One (The Beast)

- Make** General Motors
- Dimensions** 5.5m length x 1.7m width
- Weight** Up to 9,000kg
- Top speed** Classified
- Colour** Black
- Engine** V8 (43 litres/100km)
- Body** Steel, aluminium, titanium and ceramic, with fibreglass sheets on the doors and fenders
- Year of debut** 2009 (for President Barack Obama's inauguration)
- Cost** \$2 million

Emergency items stored in the limousine

- Firefighting equipment
- Oxygen tanks
- Containers with the President's blood type



Passenger cabin

Entire passenger cabin can be sealed off in response to a chemical attack; there is ready oxygen supply for the sealed cabin

Communication

Built-in satellite phone at the President's seat can directly connect him to the Vice-President and Pentagon. He can have secure video conferences with Situation Room at White House or with US embassies overseas.

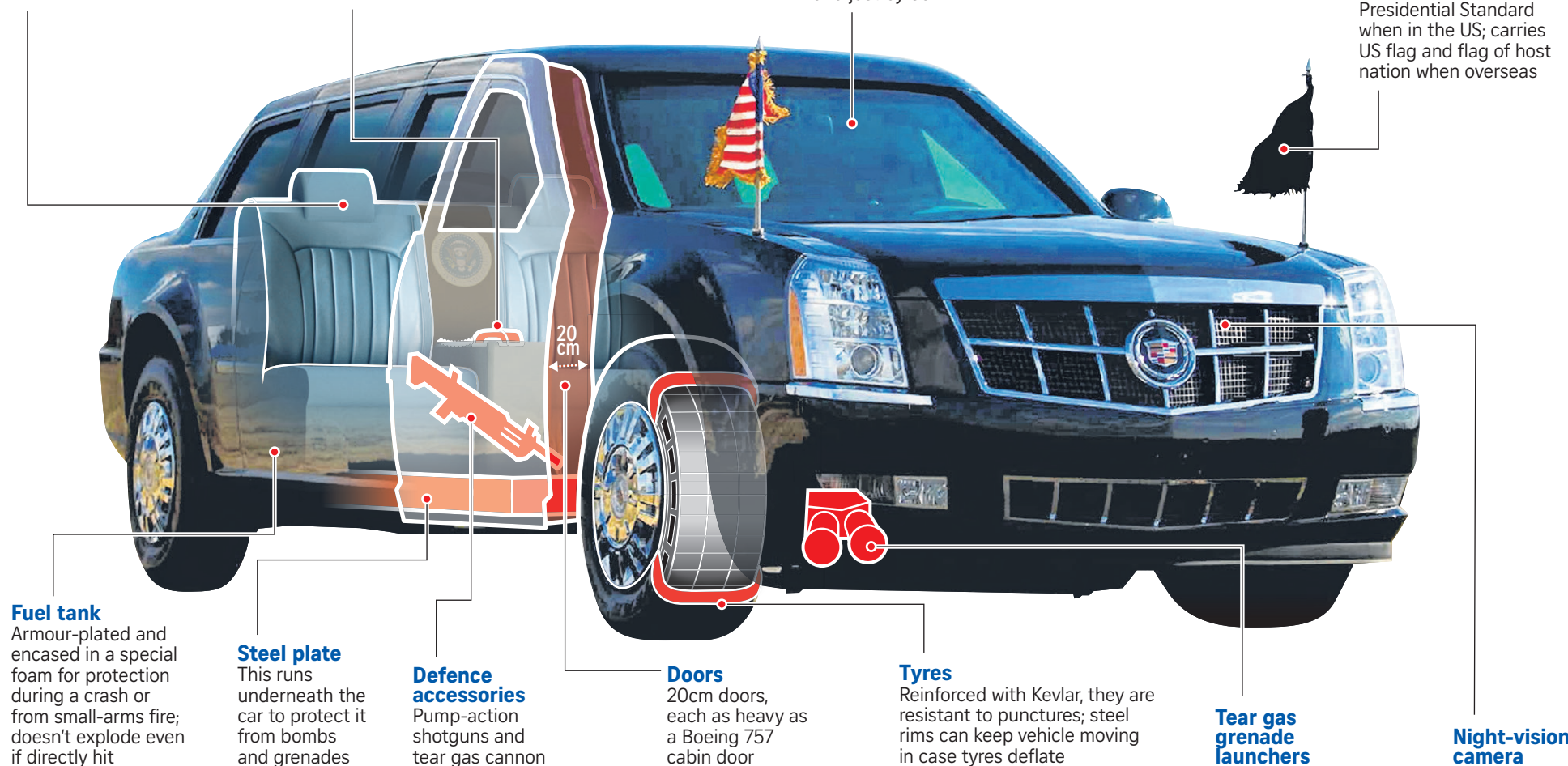
Windows

13cm-thick bulletproof windows. Only the driver's window opens, and just by 8cm

Actual thickness of windows: 13cm

Flags

Carries US flag and Presidential Standard when in the US; carries US flag and flag of host nation when overseas



Fuel tank

Armour-plated and encased in a special foam for protection during a crash or from small-arms fire; doesn't explode even if directly hit

Steel plate

This runs underneath the car to protect it from bombs and grenades

Defence accessories
Pump-action shotguns and tear gas cannon

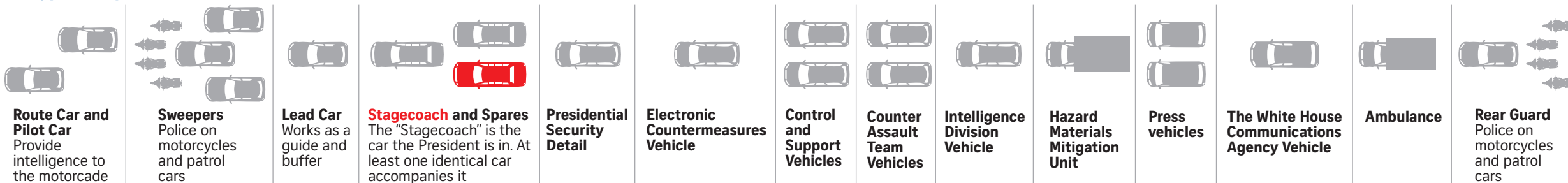
Doors
20cm doors, each as heavy as a Boeing 757 cabin door

Tyres
Reinforced with Kevlar, they are resistant to punctures; steel rims can keep vehicle moving in case tyres deflate

Tear gas grenade launchers

Night-vision camera

The typical US presidential motorcade



Kim Jong Un's likely ride BMW 7 Series High Security

- Make** BMW
- Engine** 6-litre turbocharged V12 engine
- Power** 544hp
- Torque** 750Nm
- Acceleration** 0-100kmh in 6.2 seconds
- Top speed** 210kmh

Onboard equipment

- In-built fire extinguisher system
- Bottled fresh-air system (to counter chemical attacks)
- Options include night vision
- Typically, these cars will have their front airbags disabled, in case they need to ram through obstacles



Windows
6cm glass with polycarbonate coating

Armour
Metal armouring on body.

Able to withstand shots from long-range, high-powered rifles, and explosives equivalent to 15kg of TNT