



Media Information

Lamborghini Essenza SCV12 is the first car on the market with full carbon chassis homologated according to the FIA Hypercar safety standards

- **Carbon fiber monocoque made in Lamborghini's CFK department in Sant'Agata Bolognese**
- **Objective: performance, driving comfort and maximum safety thanks to over 20 static and dynamic tests**
- **Limited edition hypercar exclusively for non-competitive track use**
- **Torsional stiffness 20% higher than Huracán GT3 EVO for extraordinary driving precision**

Sant'Agata Bolognese, June 7, 2021- The Lamborghini Essenza SCV12 is the first car on the market with a carbon fiber roll cage homologated according to the FIA Hypercar safety standards. This extraordinary achievement is the result of Automobili Lamborghini's thirty years of experience in the study and application of composite materials in the automotive field.

Giorgio Sanna, Lamborghini's Head of Motorsport, commented: *"The Essenza SCV12 was born as a 'laboratory of ideas'. This allowed us to use technical solutions usually found in racing prototypes, such as the suspension installed directly on the load-bearing gearbox, which is an innovative solution for a GT car. In addition, it features the new carbon fiber monocoque chassis without steel roll cage, resulting from technical collaboration with the FIA, thanks to which we've started a process that will lead to an exponential improvement in safety for GT racing drivers in the future."*

The carbon fiber chassis of Essenza SCV12 are produced in the autoclaves of Automobili Lamborghini's CFK Department in Sant'Agata Bolognese, a division of excellence that also produces the chassis of the current Aventador line.

The testing required by the Fédération Internationale de l'Automobile for chassis homologation is extremely rigorous, involving both static and dynamic tests. The Lamborghini Squadra Corse technicians thus extensively modified the structure of the production chassis from which the Essenza SCV12 chassis is derived.

The carbon fiber monocoque was reinforced in several points, having to withstand forces of over 12 tons during the FIA homologation tests without presenting significant deformations. There are more than 20 static tests which, in addition to the chassis, involve the pedals, belts and fuel tank. The dynamic crash tests, on the other hand, involve impacts at speeds of up to 14 meters/second. In this type of test, the chassis must not be subjected to any intrusion of external elements that could come into contact with the driver, and the fuel tank must not leak.

The decision of the Lamborghini Squadra Corse technicians to maintain the carbon fiber structure, i.e. not mounting a steel roll cage, allowed not only a benefit in terms of overall weight, thanks to the use of innovative laminated foams inside the chassis (ROHACELL® 71 XT), but also provided a significant increase in cockpit space for optimal driving comfort.

In the Essenza SCV12, the driver sits on an OMP FIA 8862 homologated seat, mounted on carbon fiber cradles designed by Squadra Corse and produced in Lamborghini's CFK laboratories. The seat



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has been lowered compared to the road models and the driver and passenger are protected on the door side by two side impact guards, also made of composite material, which replace the classic steel tubes found in racing cars.

Marco Mapelli, Lamborghini Factory Driver, commented: *“Essenza SCV12 is not only a fast car that can deliver exhilarating experiences, but it’s also equipped with an incredibly comfortable and spacious cabin. This is a unique feature appreciated by all gentlemen drivers, for whom it is intended.”*

Another new solution is the cradle situated in the rear part of the monocoque, which houses the engine perfectly positioned on the longitudinal axis, while the gearbox has a load-bearing and structural function. This characteristic also made it possible to achieve torsional stiffness values 20% higher than those of the Huracán GT3 EVO.

“Along with the aerodynamic load of over 1200 kg at top speed,” explained Marco Mapelli, “the torsional stiffness of the car contributes to ensuring extraordinary driving precision. This makes it possible for the driver to tackle curves at speed without any appreciable correction of the steering angle. Essenza SCV12 is a very fast car thanks to the extraordinary thrust of the 830 hp engine, and it’s relatively easy to drive.”

The first units of Lamborghini Essenza SCV12 were delivered to customers in April 2021, and the dedicated program of track events will start at the end of June.

Photos and videos: media.lamborghini.com

Information on Automobili Lamborghini: www.lamborghini.com



Automobili Lamborghini S.p.A. Headquarters

Head of Communication
Tim Bravo
T +39 051 9597611
tim.bravo@lamborghini.com

Brand & Corporate Communication
Clara Magnanini
T +39 051 9597611
clara.magnanini@lamborghini.com

Product & Brand Extension Communication
Rita Passerini
T +39 051 9597611
rita.passerini@lamborghini.com

Motorsport Communication
Francesco Colla
T +39 051 2156850
extern.francesco.colla@lamborghini.com

Polo Storico & Heritage
Massimo Delbò
T +39 3331619942
massimo@delbo.us

Regional Offices

Europe, Middle East & Africa
Emanuele Camerini
T +39 342 567 5842
emanuele.camerini@lamborghini.com

Asia Pacific, Chinese Mainland, Hong Kong & Macau
Nancy Rong 荣雪霏
T +86 10 6531 4614
xuefei.rong@lamborghini.com

North & South America
Jiannina Castro
T +1 703 3647926
jiannina.castro@lamborghini.com



Media Information

United Kingdom
Juliet Jarvis
T +44 (0) 7733 224774
juliet@jic.uk.com

Eastern Europe & CIS
Tamara Vasilyeva
T +7 925 503 6706
tamara.vasilyeva@lamborghini.com

Japan
Kumiko Arisawa
T +81 804 606 0487
kumiko.arisawa@lamborghini.com

South-East Asia & Pacific
Alethea Tan
T +658711 1329
alethea.tan@lamborghini.com