



# BE <sup>FM250</sup> VAMPIRE II

Catalogue of FM250 Vampire aircraft  
and its accessories  
By CARBON DESIGN s. r. o.

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Vampires are beasts in legends and stories from Eastern Europe, but much of how modern people see vampires was created by Bram Stoker in the famous novel Dracula. A fantasy combination of power, speed and sporty elegance in clouds of perfection. Evolution knows only two species - hunter or prey. Which one are you?

**FM250**  
**VAMPIRE II**





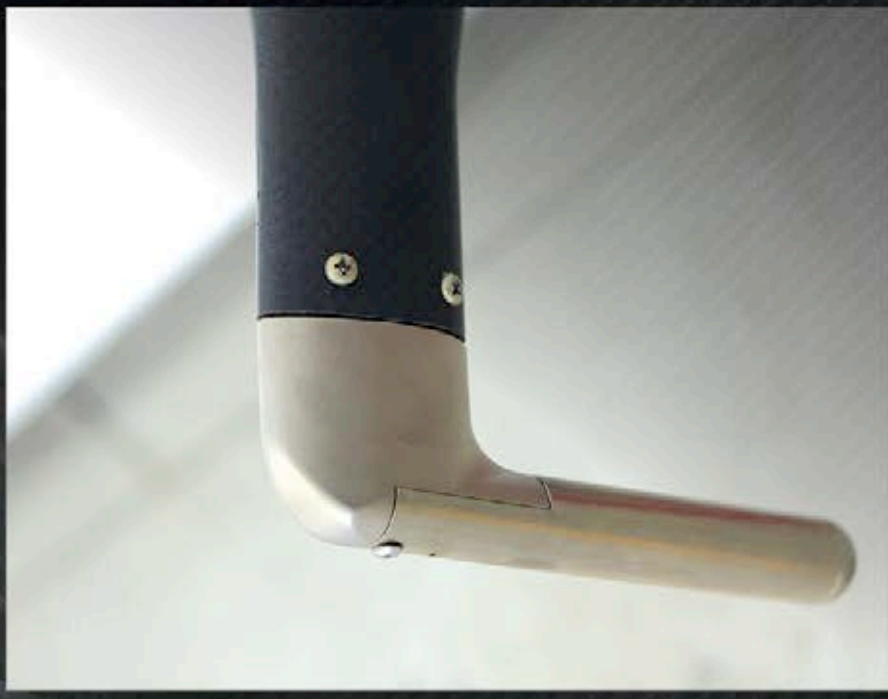
CARBON DESIGN s. r. o. is focused on the development and production of advanced composite parts, including design, product optimization, preparation of production processes, molds, jigs and ensuring manufacturing mostly with applications in the aviation and automotive industries.



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BY CARBON DESIGN  
S. R. O.





We are part of a great team that gathers more than 300 colleagues, deeply experienced in their field. Currently we are working on implementation of systems for industry 4.0 which is enhanced by our quality management systems such as ISO 9001 optimizing our production and stock management. Time effective production with strong system of quality controls is important for us. We invite you to visit our workshops and consider by yourself if our companies fits into your cooperation demand.



About  
CARBON DESIGN  
s. r. o.





## Certification of Production

**CERTIFICATE**  
No. 42011245

 LL-C  
Certification

This is to certify that the Quality Management System of

**CARBON DESIGN s.r.o.**  
Hradecká 315  
551 01 Jaroměř, Pražské Předměstí  
Czech Republic

has been assessed and found to be in compliance with the standard

**ISO 9001:2015**

applicable to

**Development and production of advanced composite parts of high strength and extremely low weight for tailored applications especially for the aerospace and automotive industry.**

The certificate has been issued under No. 42011245 for the registration period from 19<sup>th</sup> July 2017 to 18<sup>th</sup> July 2020.




Approved by  Printed by 

validity code: **DB2F3C41-014**  
Check the validity of this certificate using this code at [www.ll-c.net](http://www.ll-c.net)

[www.ll-c.net](http://www.ll-c.net)

LL-C (Certification) Czech Republic s.r.o. | Pobožní 620/3, 186 00 Praha 8

*Letecká amatérská asociace ČR – Light Aircraft Association of the Czech Republic*

**Approval for production, repairs, testing and import of sport flying equipment and its parts**

Issued by the Light Aircraft Association of the Czech Republic (hereinafter the LAA CR) based on the authorization by the Ministry of Transport according to the Act No. 49/1997 Coll., on civil aviation, and on Act No. 455/1991 Coll., on engaging in trade (The Trade Licensing Act), as amended.

Registration number:  
**05 / 2016**

Approval holder:  
**CARBON DESIGN s.r.o.**

Address: Hradecká 315, Pražské Předměstí, 551 01 Jaroměř

ID/Date of birth: ID: 05285429

Responsible person:  
**Ing. arch. Roman Ivanov**

Address: 552 21 Rasovky 132

Date of birth: 12.06.1974


Scope of Approval:  
Production, maintenance and service of Sport flying facilities – ultralight aircrafts, aerodynamically driven, all composite construction.

Expert supervision is assigned to:  
**Ing. Petr Chvojka**

The approval holder is obliged to proceed according to the appropriate stipulations of the LAA CR regulation and of the pertinent stipulations of other regulations.

Issued: **16.12.2016**  
Valid until: **16.12.2019**

*Letecká amatérská asociace ČR  
Na Kladu 216  
102 00 Praha 10  
TEL: 247 403 567*

  
**Ing. Václav Chvála**  
LAA CR Chief Technical Inspector



# BE <sup>FM250</sup> VAMPIRE II



Be Vampire  
philosophy

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The FM250 Vampire - originally a Czech UL aircraft, with perfect aerodynamic features and a cool design. Real ultralight all-composite construction, quality components and complete customer's support... The FM250 Vampire has been well-established on the market since 2009 and it has been continuously developing and improving since then.



*Flutter Test - part of  
Certification process*





The FM250 Vampire is a low-wing UL aircraft, with two seats side-by-side. It has a fully composite construction consisting of a fiberglass sandwich combined with carbon structural parts. It achieved perfect properties in terms of its rigidity, weight and aerodynamic drag. It is one of the 'lightest aircraft in the UL category, which allows a large useful load for crew. FM250 Vampire is offered as „Ready to fly“ model with engine ROTAX 912 UL 80 HP or ROTAX 912 ULS 100 HP. Full dual controls is parts of standard configuration. There are also plenty of special accessories or options to make FM250 Vampire more customisable for different flying styles. Contact your local distributor or producer for more information.


FM250 Vampire

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Length .....	6.049 m
Height .....	2.164 m
Wing span .....	7.8 m
Wing area. ....	10.05 m <sup>2</sup>
Empty weight (basic version) .....	265 kg
MTOW UL category .....	450 kg / 472.5 kg
MTOW LSA category .....	560 kg
Never exceed speed VNE .....	270 km/h
Stall speed in landing configuration VSO .....	63.0 km/h
Stall speed in clean configuration VSI* .....	78.0 km/h
Cruise speed .....	180-220 km/h
Climb rate .....	4-7 m/sec at 120 km/hod
Take off distance over 15 m obstacle .....	290 m
Engine options .....	ROTAX 912 UL / ULS
Fuel tank capacity .....	68-100 l
Range .....	800-1200 km
Glider air tows .....	up to 750 kg
Number of seats .....	2 (pilot, copilot)
* UL category 472.5 kg	

FM250 Vampire

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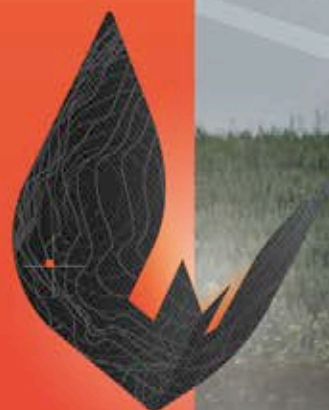
It proved to be a perfect plane for sport or recreational flying, pilot training and an ideal towing machine approved for towing gliders up to 750 kg. The production capacity as well as FM250 Vampire community is growing. Get into the Vampire team now!

FM250 Vampire uses only modern safety equipment with the name of best quality. The hottest model of FM250 Vampire accommodates the GARMIN G3X touch system and accessories. (the analogue version is still available for basic model), it has a redesigned interior with comfortable leather seats and other improvements, which are based on the feedback of pilots and instructors. So you can really enjoy flying.



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FM250  
**VAMPIRE II**





## Creative Scheme Catalogue

Get a unique style for your FM250 Vampire





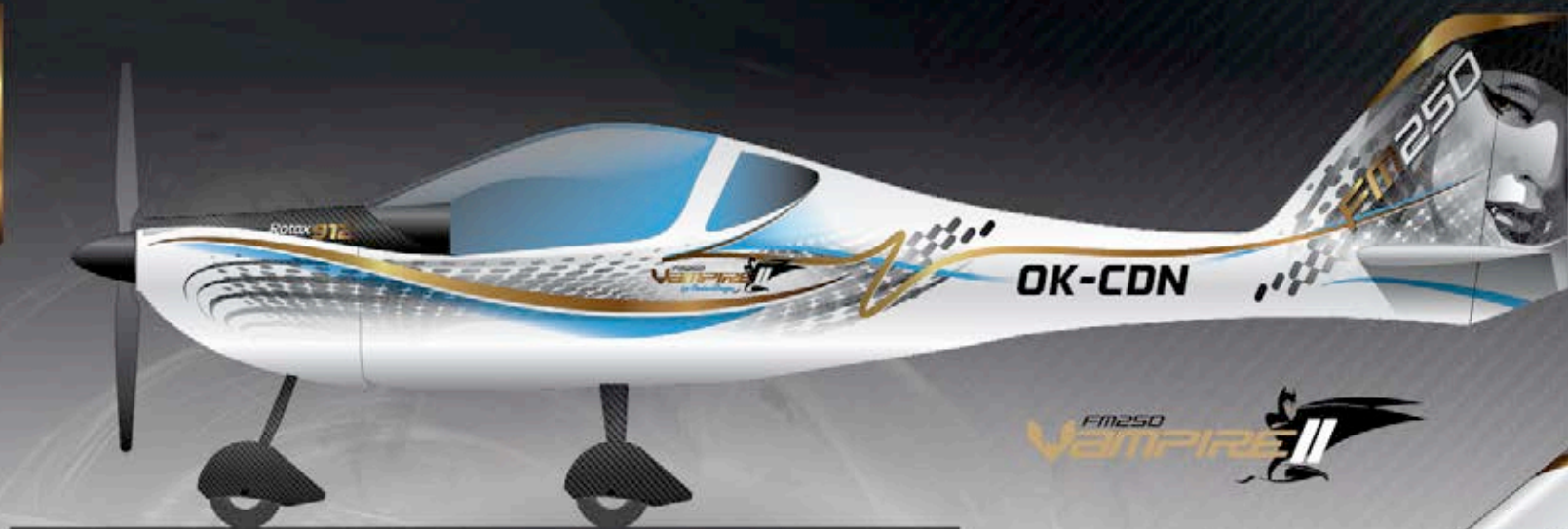




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Creative Scheme





FM250  
**VAMPIRE II**







FM250  
**VAMPIRE II**



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Creative Scheme







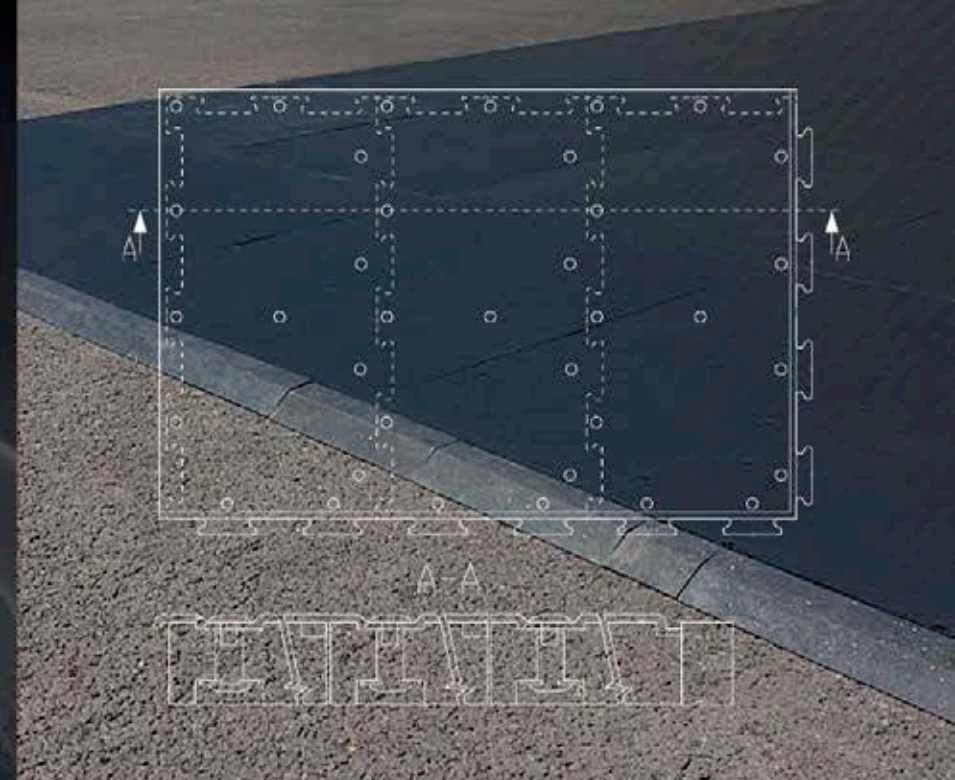


Creative Scheme

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Travel with COVERTAN  
is not a problem  
- it is ready in original  
packing on one  
EURO pallet, so  
you can take it  
everywhere with you.







**COVERTAN** - an innovative solution of floors for race cars, motorbikes and other vehicles. In a few minutes you can create a stand, operating service workshops or party stand at whatever place (parquet flooring, pavements, concrete, earth, mud, ice etc.). In any weather you stay clean and isolated from ground cold even if you will roll on the floor.

The installation of the **COVERTAN** system requires no jigs or tools. It can be easily assembled/disassembled/reused whenever needed. The puzzle lock system ensures that the boards are strongly connected to create a compact surface and it is going also with an flexibleclick rails for car. It is offered in three variants of size of final stand and it is delivered in packing of size of one EURO pallet.

#### Common characteristics:

Dimensions of plate (maximum)	1760 x 1170 x 38 mm
Area	2.03 m <sup>2</sup>
Weight of plate	12.5 kg
Load capacity	0.25 MPa
Heat conductivity coefficient	0.044 W/mK
Heat transmission resistance	0.916 m <sup>2</sup> K/W
Classification according to reaction to fire pursuant to article 11.3 of the CSN EN 13501-1 2002 standard	Efl
Incidental fire load pn	15 kg/m <sup>2</sup>

We introduce **COVERTAN** - an easy and sophisticated covering system with high-quality insulation that has a wide range of applications. It is a system of compact panels with the dimensions 1760 x 1170 x 38 mm. It has a low weight and fireproof, an increased thermal-insulation capability, highly abrasion resistance and it is easy to clean and maintain.

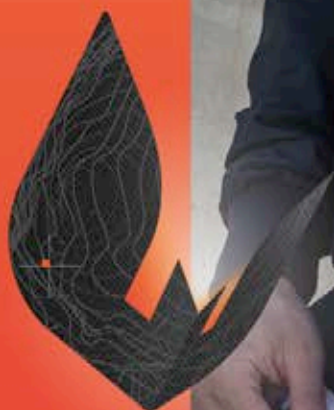
**COVERTAN** consists of two layers made of thermoplastic materials that are jointly connected - the upper plate has a special anti-skid pattern and abrasion-resistant layer with a high mechanical and chemical resistance. The lower plate has thermal-insulating features.

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**COVERTAN**  
Flexible service stand for your  
FM250 Vampire



COMPOSITE SPECIALIST





GOLD VAMPIRE  
COLLECTION



**BE VAMPIRE STYLE**  
Show that you are Vampire, join our team!

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VAMPIRE  
BUSINESS CLASS







**BE VAMPIRE STYLE**  
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REAL VAMPIRE  
STYLE



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VAMPIRE  
YOUR DESIGN







**BE VAMPIRE STYLE**  
Show that you are Vampire, join our team!

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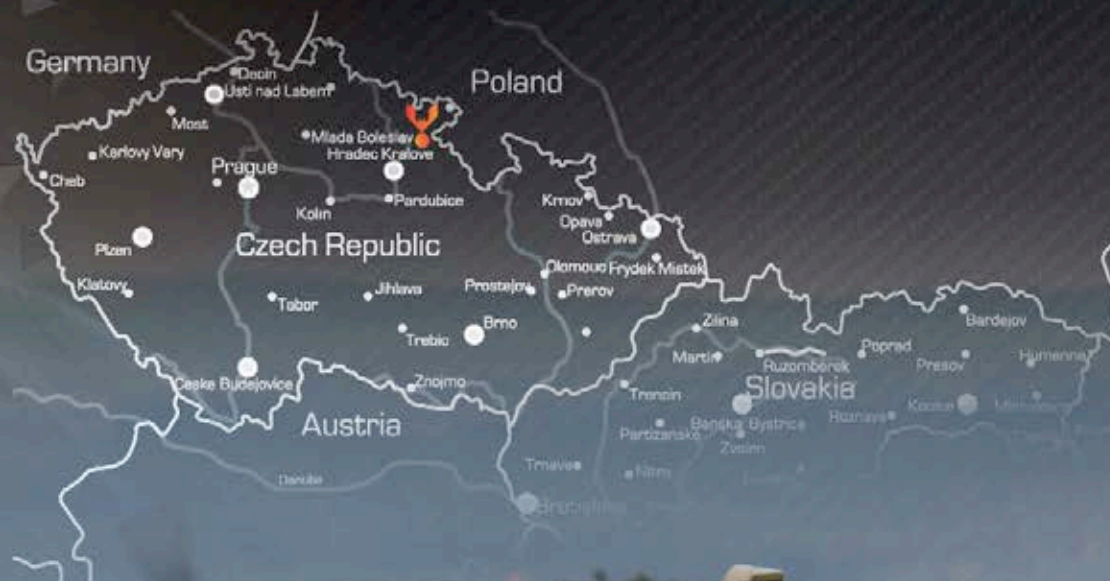
See more at  
[www.carbondesign.cz](http://www.carbondesign.cz)

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