The right **structural core** for **wind turbines** applications

- Light and Resilient
- Highly mechanical resistant
- Easy bonding
- Shock absorber
- Acoustic and Thermal insulation
- Rot-proof and Water resistant
- Easy shaping
- Cost effective
- Environmentally friendly
NIDAPLAST
IN THE HEART OF STRUCTURAL SANDWICH PANELS

Nidaplast composites is the inventor of the extruded polypropylene honeycombs core. This recyclable material is environmentally friendly and requires little energy to be manufactured and brought to the customer.

The high mechanical properties of nidaplast honeycombs are well adapted to the achievement of structural sandwich panels. Mainly used for production of large pieces, these sandwich structures have been experienced in different fields of applications for more than 20 years: Yachting with decks and bulkheads, Transport with trucks body panels, Building with claddings panels, or Industrial goods with water treatment tanker covers.

From design to delivery, nidaplast composites have been closely involved in these projects in order to provide the best techno-economic solutions for structural applications. These partnerships have proven that nidaplast composites can be the right partner for wind turbine developments.

NIDAPLAST STRENGTHS
The best techno-economic choice for structural sandwich panels

All the advantages gathered together in the nidaplast honeycombs structural core optimize the manufacturing of nacelles and thus involve cost effective solutions.

NIDAPLAST HONEYCOMBS CORE IN WIND TURBINE NACELLES

Nidaplast honeycombs core brings all the benefits of the polypropylene sandwich panels with traditional or innovative thermosetting processes.

Nidaplast composites is thus fully compatible with all the nacelles’ sandwich parts for flat, curved and pre-cutted surfaces.

NIDAPLAST RANGE AND PROCESSES

Nidaplast composites brings its own long experience and its unique know-how in nacelles supplying a wide range of products adapted for each process engineering.
To save time and to be in support of projects, we help our customers in their technical approach:

• **Nidaplast composites** shares years of experience in order to help you in the structural **pre-dimensioning** of your composite pieces. Our engineers have long experiences in the dimensioning with both **analytical and numerical methods for composites structures**. Our engineers provide pre-dimensioning of your structural sandwich pieces using **performing finite element**.

• Thanks to a **high performing laboratory**, our engineers **help your design team** in the choice of your sandwich composites materials and **valid the mechanical resistances on material testing machines**.

• Our engineers have long-term experience of the use of nidaplast products in the main manufacturing techniques such as hand lay-up, spray lay up, resin transfer molding, infusion... We work **closely to your design and production teams** to manufacture first prototypes and **to optimize your production cost** and adapt our offer to your demand...

**Nida-kits : Pre-cutted honeycombs pieces**

Nidaplast is now equipped with a new machine designed to cut tailoring pieces of nidaplast honeycombs products, the **Nida-kits**. Nidaplast supports his customers from the technical-study, the design and the prototyping to the final production of the designed pieces. From 5 to 50 mm thickness straight cutting, **nidaplast composites** is now offering the complete service.

**THE FIELD OF SUSTAINABLE DEVELOPMENT**

Leader and reference, **nidaplast** has been innovating in the **field of sustainable development**. Because of their lightweight, the developed products require little **energy and raw material** for their manufacture. They are designed to make **lightweight structural sandwich panels** that limit CO2 emissions during use, for example in the transport sector. **Nidaplast** is committed to this environmental approach and is ISO 14001 certified.