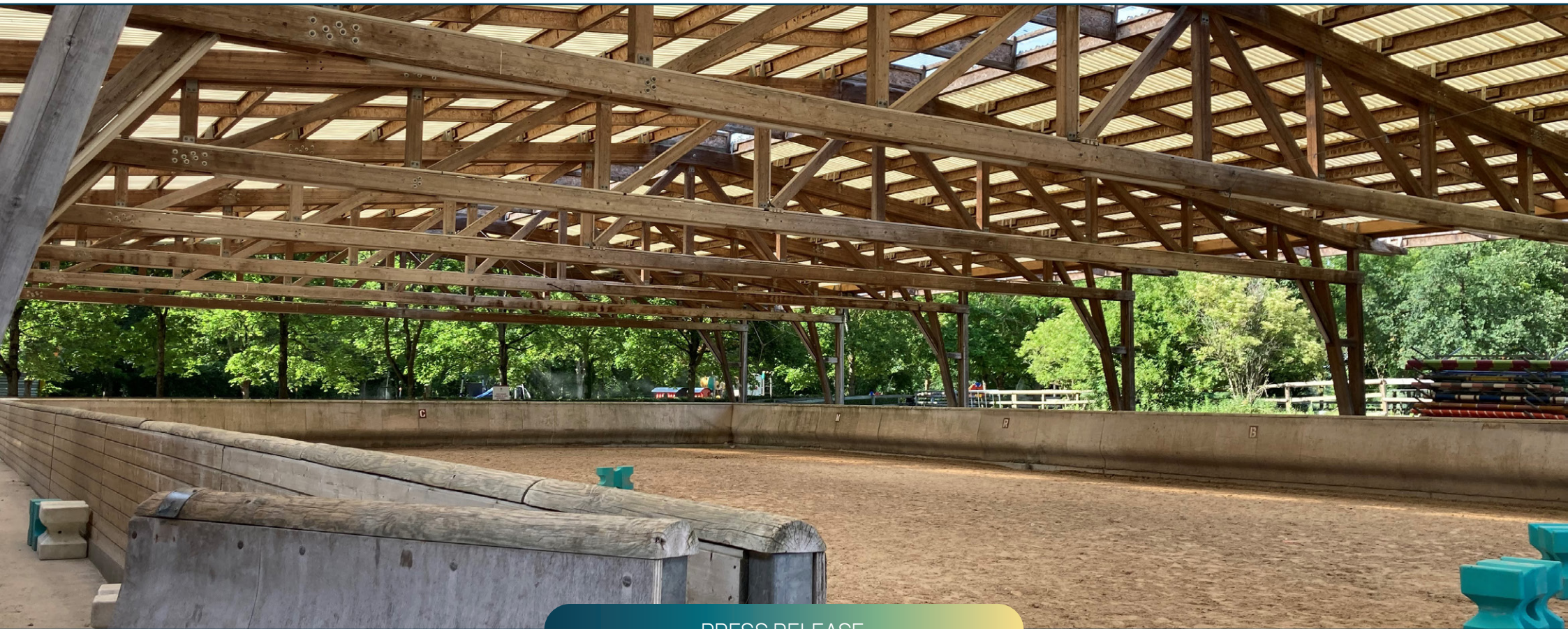




PRESS RELEASE

ONDEX: Covering, Lighting and Ventilating Equine Buildings to Better Care for Horses

A horse does not simply live in a stall, an indoor arena or a loose housing facility: it lives within an environment shaped by the building that shelters it.

The light passing through a roof covering, the air circulating beneath a ridge, the resistance of cladding against wind, hail or snow, the ease of cleaning surfaces, and the control of humidity and dirt accumulation all directly contribute to its daily comfort.

For equestrian centres, stud farms, agricultural architects, timber and steel building contractors, and specifiers in the equine sector, the challenge therefore extends far beyond construction alone: it is about designing infrastructures capable of protecting, illuminating, ventilating and standing the test of time.

With its bi-stretched PVC sheets dedicated to roofing, cladding, lighting, ventilation and indoor climate management, **ONDEX** provides a technical solution to this challenge.

Its approach transforms the building envelope into an active contributor to equine welfare, helping create brighter, stronger and better-controlled environments.



Before the First Stall Is Installed, the Building Must Breathe Properly

An equine building is never neutral.

If it is too enclosed, it may lack sufficient airflow. Too open, and it becomes exposed to uncontrolled air currents. Too dark, and interior volumes become difficult to perceive. Too fragile, and maintenance costs increase.

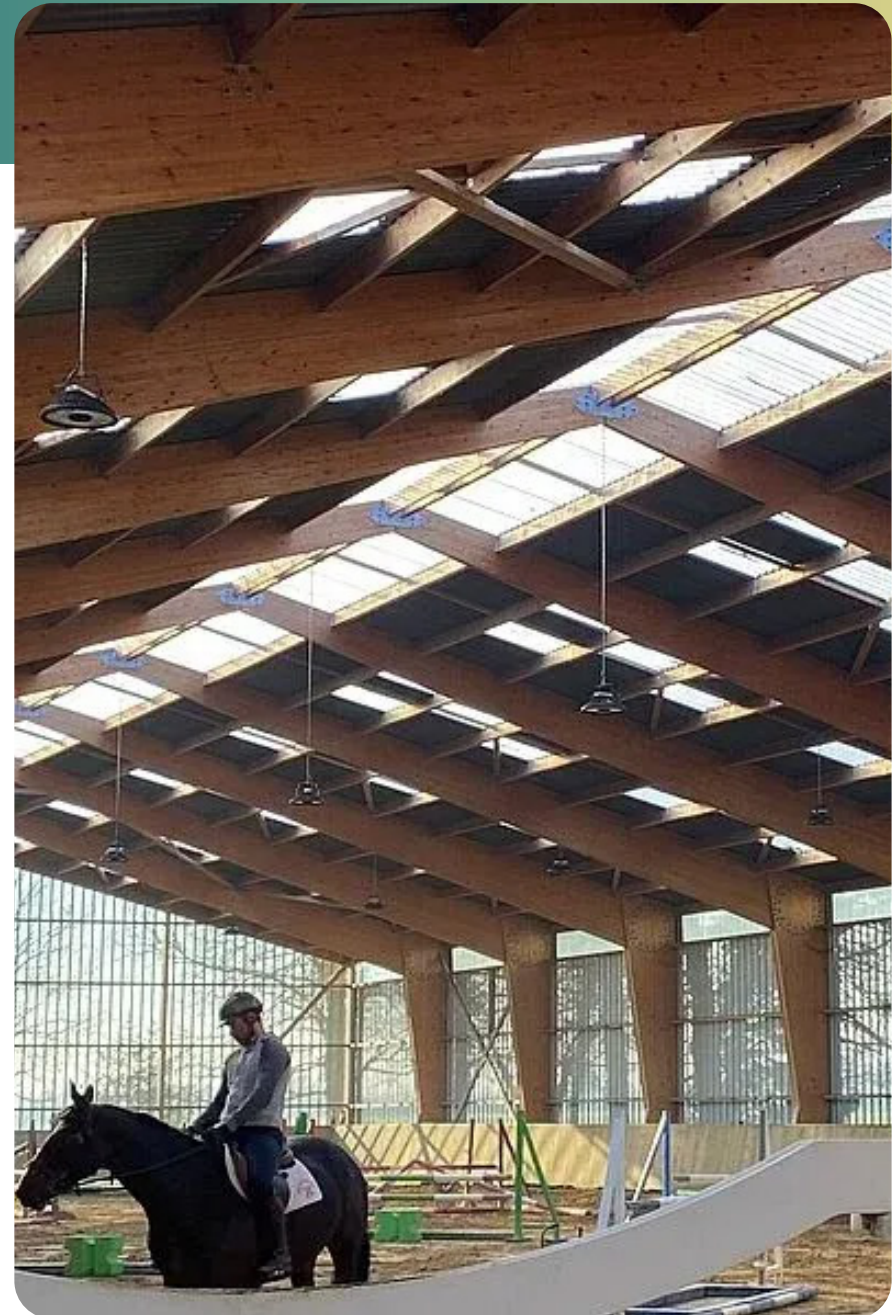
The right balance depends on a combination of very practical factors: natural light, ventilation, mechanical strength, watertightness, durability, hygiene and performance under adverse weather conditions.

ONDEX addresses this challenge through a comprehensive approach to building design. Its solutions do more than simply provide roofing or cladding: they also help shape the indoor environment. Bi-stretched PVC combines strength, light transmission, dimensional stability and adaptability to a wide range of agricultural and equine applications.

For industry professionals, this approach provides several key advantages:

- Bringing in long-lasting natural daylight;
- Protecting horses and users from rain, snow, wind and hail;
- Managing airflow without creating discomfort;
- Selecting materials resistant to impact and climatic stresses;
- Simplifying maintenance and hygiene;
- Designing buildings built to last.

ONDEX meets these requirements through a holistic building-envelope approach: roofing, cladding, daylighting and ventilation are not treated separately but as complementary functions within a single living structure.



Bi-stretched PVC: An Engineered Material for Long-Lasting Buildings

ONDEX's technical identity is built on its bi-stretching process, invented and patented as early as 1964. This technology stretches PVC sheets both transversely and longitudinally to reorganise their molecular structure. The result is mechanical strength three times greater than that of standard PVC.

This expertise in material engineering enables ONDEX to meet demanding applications, particularly in agricultural and equine buildings, where sheets must retain their performance over time. Depending on the product range, bi-stretching combined with co-extrusion contributes to ageing resistance, dimensional stability, strength and durability.

Today, ONDEX is the leading manufacturer of bi-stretched PVC sheets. More than 70% of its production is exported to around forty countries, serving specifiers seeking solutions renowned for their technical performance and durability in challenging environments. Yet this international expertise remains rooted in a very practical objective: manufacturing sheets capable of meeting real-world demands.

In the equine sector, this expertise takes on particular significance. The material does more than simply cover or enclose a building. It can also help bring in natural light, optimise ventilation, improve hygiene and maintain an environment better suited to horses.



Our Product Ranges for Covering, Lighting and Ventilating Equine Buildings

ONDEX offers several solutions specifically suited to equestrian infrastructures. These solutions address the essential functions of the building envelope: protection, daylighting, ventilation, durability and the creation of a healthier indoor environment.

Covering and Cladding the Most Exposed Buildings

For buildings subjected to demanding conditions, ONDEX offers bi-stretched PVC sheets designed for roofing and cladding applications. They meet the requirements of agricultural and equine environments exposed to harsh weather, hail, wind, snow, low temperatures, and even certain chemical and saline environments.

Their mechanical strength, stability and durability make them particularly suitable for riding arenas, stables, stud farms, storage buildings and timber or steel structures. Depending on project requirements, they also allow light transmission to be adapted (neutral crystal, translucent, diffusing ivory or opaque), while facilitating installation on both concave and convex structures. Their smooth, homogeneous surface limits dirt accumulation and simplifies cleaning, contributing to improved hygiene in horse facilities.





ONDEX PERFOLUX

PERFOLUX: Ventilation Without Sacrificing Natural Daylight

PERFOLUX is a translucent perforated sheet designed as a rigid windbreak. It combines two essential requirements in animal housing buildings: ventilation and natural daylight.

Developed using a patented system in cooperation with the French Livestock Institute (Institut de l'Élevage), PERFOLUX delivers over 60% light transmission, windbreak performance tested in wind tunnels, and superior impact resistance compared with alternative materials. In equine facilities, it enables effective airflow management while maintaining a bright and comfortable environment.



ONDEX LANTERNEAUX

ONDEX Light Ridges: Daylighting and Ventilation Through the Roof Ridge

ONDEX light ridges complement this approach at roof level. Designed as daylighting and ventilating ridge systems for agricultural buildings, they utilise the highest point of the structure to promote both natural light entry and air circulation.

In riding arenas, stables and large-volume buildings, this solution helps improve the indoor environment directly from the roof. It contributes to air extraction, enhances interior brightness and integrates ventilation into the building's overall design.

DIFFU100: Diffuse Natural Light to Reduce Stress in Horses

In an equine building, light is not only about visibility. It influences the atmosphere, working comfort, biological rhythms and horse behaviour. With its DIFFU100 technology, ONDEX offers a 100% light-diffusing translucent finish designed to transform direct sunlight into soft, uniform and enveloping illumination.

This benefit is particularly important in the equine sector. Horses struggle to interpret strong contrasts: a patch of direct sunlight or a shadow cast on the ground may be perceived as an obstacle, a hole or a change in surface level. Such contrasts can trigger spooking, refusals or stress. By diffusing light completely, DIFFU100 eliminates cast shadows and reduces contrast zones, creating a more reassuring environment for the horse and a safer one for the rider.

Diffuse natural light also contributes to circadian rhythm regulation by synchronising biological cycles linked to coat growth, reproduction, mood and post-exercise recovery. It improves visual comfort for riders and stable staff by reducing glare and eye strain during arena work or horse care activities.

Another advantage is that, unlike certain translucent materials that can create a magnifying-glass effect, light diffusion distributes solar energy more evenly. This limits localised hot spots beneath the sheets and contributes to the building's overall thermal comfort.

With DIFFU100, ONDEX addresses a central challenge of equine infrastructures: bringing natural daylight into buildings without glare, cast shadows or stressful contrasts for horses.



Equine Welfare Also Depends on Materials

Choosing a roofing sheet, cladding panel or ridge vent may seem highly technical. Yet it reflects a broader vision of the equine building. A durable material reduces major maintenance interventions. An easily cleaned surface improves hygiene. A daylight-transmitting roof transforms the usability of a riding arena. Well-managed ventilation contributes directly to air quality.

ONDEX provides a solution tailored to the constraints faced by industry professionals. Rather than offering a single product, the company provides a range of solutions capable of integrating into various projects: riding arena construction, agricultural building renovation, stud farm development, stable upgrades or timber and steel structure design.

This approach is particularly valuable to specifiers. It allows roofing and cladding to be considered not merely as technical components but as active contributors to building performance and user comfort. In an equine facility, comfort is not declared—it is built through materials, light and air.



A French Technology Born in Burgundy and Dedicated to Demanding Buildings

ONDEX's positioning is founded on a strong industrial heritage. Located in Chevigny-Saint-Sauveur, Burgundy, the company has embodied French expertise in bi-stretched PVC sheet manufacturing since 1965. As the global pioneer of this technology, it has built its reputation on the strength, durability and technical excellence of its solutions.

Its long-standing partnership with leading organisations such as the French Livestock Institute (Institut de l'Élevage) also reflects its close connection to agricultural applications. By adapting its technologies to the physiological requirements of horses and the operational needs of stud farms, ONDEX supports professionals in designing buildings where performance extends beyond structural strength to include air quality, daylight, hygiene, material longevity and animal welfare.

For equestrian centre owners, stud farms, agricultural architects, timber and steel building contractors, and equine industry specifiers, ONDEX therefore provides a practical and technical answer to an essential question: how can buildings be designed to protect horses while providing a healthier, brighter and better-controlled environment?

ONDEX at the Sommet de l'Élevage

ONDEX will be exhibiting at the **Sommet de l'Élevage** in Cournon from 6 to 9 October.

This event offers professionals from the equine sector—including equestrian centres, stud farms, agricultural architects, timber and steel building contractors, and industry specifiers—the opportunity to discover ONDEX roofing, cladding, daylighting and ventilation solutions.

ONDEX's commercial and technical teams will be available throughout the event to discuss construction, renovation and improvement projects for equine buildings, present the benefits of bi-stretched PVC, and showcase the bright, durable and high-performance solutions developed to enhance horse welfare and infrastructure performance.



Learn More

Website



Press Contact



Carole CATORC



carole.catorc@ondex.com



+33 6 98 08 56 53

Réalisé par **Mon studio graphique** 