

Typar.

Piemonte, Italy: the soccer field of Bardonecchia changes uniform (and changes it again...)

(Images in high resolution available upon request)



Bardonecchia football stadium: the new field with natural grass placed on DuPont™ Typar® geosynthetics; photo by Bruno Marabotto, all rights reserved.

July 2011 – The football stadium in the mountain community of Bardonecchia in Val di Susa, in the province of Turin (Northern Italy), has been significantly changed for the workout needs during the summer retreat of a leading football team of Italian A Series (“Serie A”). On the existing field made with synthetic grass in 2007, DuPont™ Typar® geosynthetic has been laid and, above it, a mantle of natural turf. Thanks to the use of DuPont™ Typar®, the football field made with natural turf has higher quality planar surface, optimal drainage capacities and great stability. Once the summer retreat is over, the field can be dismantled and the synthetic grass will once again be revealed on the surface.

The Bardonecchia municipality, the owner of the soccer field, was looking for a solution that would allow the use of natural grass, while at the same time avoiding the complete dismantlement of the field and the synthetic turf normally used owing to local meteorological conditions and the altitude of 1,300 meters.

Typar.

The solution to satisfy the field's year-round permanent use needs and the specific 2011 summer retreat requirements was the placement of high-tech DuPont™ Typar® geosynthetics on top of the synthetic turf, followed by the installation of a natural turf. In such a configuration, the DuPont™ Typar® acts as a separating filter that protects both the new and original turf structures, as well as providing high stability for the entire field.



Installation of DuPont™ Typar® on the ground of Bardonecchia's football field;
photos by Bruno Marabotto, all rights reserved.

This DuPont geosynthetic is easy to handle and install and the application process took only one day. In case of rain, DuPont™ Typar® allows rainwater to flow naturally without stagnation that would compromise the natural grass' quality and cause yellowing. Its high permeability permits water filtration and the synthetic field's underlying drainage system lets it drain.



Applying the natural turf upon DuPont™ Typar® geosynthetics;
photos by Bruno Marabotto, all rights reserved.

The project was conceived by Bruno Marabotto, a sports buildings surveyor for the city of Turin, who also directed the work for this endeavor.



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DuPont™ Typar® acts as a protection to the underlying field, preventing the natural grass' turf roots and soil from entwining with the synthetic turf below. Furthermore, DuPont™ Typar® provides protection for the natural turf, making it easy to remove for future use. The high traction resistance of DuPont™ Typar® allowed the passage of heavy machines to flatten and perfectly even out the field's surface.



On the left, Baldonecchia's original football field with a mantle in synthetic turf; to the right, the new lay of the field with DuPont™ Typar® geosynthetic covered with the natural turf; photos by Bruno Marabotto, all rights reserved.

DuPont™ Typar® geosynthetic material is composed of continuous polypropylene filaments bound by a thermal process originating from a unique technology which provides the material superior uniformity and rigidity characteristics, as well as elevated elongation and initial modulus. It is widely used as reinforcement in road constructions, as a separating filter in drainage systems and in landscape architecture.



From left to right: rolls of DuPont™ Typar® ready to be installed; detail of the ground with DuPont™ Typar® geosynthetic applied; application of DuPont™ Typar® geosynthetic on the football field; photos by Bruno Marabotto, all rights reserved.

About DuPont Building Innovations – DuPont™ Typar® is a product of DuPont Building Innovations. From innovative energy-saving systems to beautiful and long-lasting surfacing solutions, the overall offer of DuPont Building Innovations is able to deliver safety, durability, beauty and energy efficiency, providing a major contribution to the modern built environment - including every kind of

Typar.

building and architecture, roads, bridges and other infrastructures and also gardens, as well as to the preservation or the renovation of existing and historical constructions.



Tests done on a scale model before the installing the natural grass. The test was done in order to assess the precise permeability performance of DuPont™ Typar®; photographs by Bruno Marabotto, all rights reserved.

The best known products and brands of DuPont Building Innovations are DuPont™ Corian® (high performance surfaces for interior design and architecture), DuPont™ Zodiaq® (quartz surfaces for interior design), DuPont™ Tyvek® (advanced building membranes), DuPont™ Energain® (panels for energy consumption reduction), DuPont™ Typar® (geosynthetics for construction) and DuPont™ Plantex® (geosynthetics for landscaping).

About DuPont – DuPont is a science-based products and services company. Founded in 1802, DuPont puts science to work by creating sustainable solutions essential to a better, safer, healthier life for people everywhere. Operating in more than 90 countries, DuPont offers a wide range of innovative products and services for markets including agriculture and food; building and construction; communications; and transportation.

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