



Rhubarb by Atelier DARN

Championing Sustainability with
Ultrafuse® rPET at FAV 2024 in
Montpellier, France



OVERVIEW

Atelier DARN's installation, RHUBARB, triumphed at the 2024 Festival des Architectures Vives (FAV) by winning the public prize. This innovative piece, featuring 1,000 3D-printed elements made from Forward AM's [Ultrafuse® rPET](#) filament, brilliantly combines art, architecture, and sustainability. Ultrafuse® rPET, crafted from recycled PET post-industrial waste, demonstrates that eco-friendly materials can achieve high performance and aesthetic appeal.

You can read the full use case here: [3D Printed RHUBARB Art Installation: Forward AM Ultrafuse® rPET \(forward-am.com\)](#)

QUICK FACTS

Materials:

Ultrafuse® rPET

Industry:

Art & Architecture

Technology:

FFF

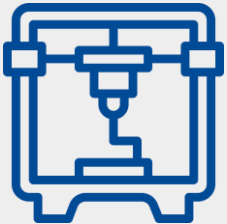
DARN

Atelier Darn, where "Darn" signifies Diverse Architecture Nomads, is not just an architectural office; it's a design journey reimaged. With a rich tapestry of experience and a vision for a better, more sustainable world, our aim here is to redefine the boundaries of architectural possibilities. Our mission is to create spaces that resonate with the environment, history, and the people they serve. We consider ourselves as storytellers, weaving the narratives of a sustainable, purpose-driven future. We are a network of architects and designers who are not bound by borders. Our diverse team and locations bring a unique perspective to every project we undertake.

[ATELIERDARN.COM](https://www.atelierdarn.com)



Made from 100% recycled PET post-industrial waste



Printed at speeds up to 150 mm/s



Won public prize at FAV 2024

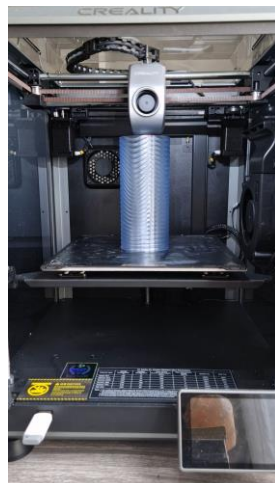
Challenge: Addressing Plastic Waste and Sustainable Design

In the modern world, plastic waste poses a significant environmental challenge, contributing to no less than 44% of total waste. The 3D printing community has a unique opportunity to make manufacturing methods more sustainable, but this requires innovative solutions that do not compromise on quality. Atelier DARN, known for its inventive approach to architecture and design, faced the challenge head-on. Their goal was to create an installation that not only captivated audiences but also demonstrated the potential of sustainable materials. They needed a solution that would meet the aesthetic and functional demands of their project while significantly reducing environmental impact.

To address this challenge, Atelier DARN turned to Forward AM's [Ultrafuse® rPET](#), an innovative filament made from recycled PET post-industrial waste. This filament **stands out for several reasons: Recycled Content, Performance, Food-Safe, and High-Speed Printability.** By utilizing **Ultrafuse® rPET**, Atelier DARN could ensure their installation was both environmentally responsible and visually stunning.

The result of Atelier DARN's efforts was RHUBARB, a captivating installation that won the public prize at FAV 2024. Erected in the historic courtyard of Hôtel d'Aurès in Montpellier, France, RHUBARB features 1,000 pieces of 3D-printed elements created from eco-friendly PET filaments. These elements, varying in size and color, reflect the hues of Montpellier and symbolize human diversity and inclusivity.

RHUBARB's use of Ultrafuse® rPET underscores the feasibility of creating high-quality, eco-friendly designs. The installation not only captivated audiences but also set a new standard for sustainable architecture and design, demonstrating the potential of recycled materials in creating engaging and responsible art.



Learn more about Ultrafuse® rPET: