

At NERF Interieur, all data is generated in one central drawing – from concept to CNC.

FROM CONCEPT DESIGN TO CNC PRECISION

How NERF Interieur joins creative development and CNC production in one continuous digital workflow

NERF Interieur is a Belgian interior design studio and carpentry workshop specialising in fully custom-made interiors. For more than ten years, the company has united interior design, technical planning, and in-house production under one roof. With a deliberately small team of just five people – two interior designers, two carpenters, and one technical planning specialist – NERF works with short communication paths and close coordination between design and workshop execution. This structure ensures consistent quality control across all projects while maintaining a high level of flexibility. For the past five years, Palette CAD has been the central foundation of NERF’s planning and production processes.



Images: NERF

Benjamin Broere, co-owner of NERF Interieur, and Samira, interior designer.

Challenge

From 2D production drawings to a fully integrated workflow

Before implementing Palette CAD, NERF worked exclusively in 2D using another CAD program. Drawings were mainly created for presentation purposes. Three-dimensional renderings were not a fixed part of the workflow. When clients needed a better spatial understanding, additional explanations were required, sometimes supported by SketchUp illustrations. Visual communication was therefore largely based on interpretation rather than realistic representation. Production workflows were also fragmented.

Bills of materials were created manually, based on 2D drawings, and CNC programming had to be done directly at the machine. This resulted in additional programming time, higher error rates, and a strong dependence on specific employees with machine expertise.

The objectives were clear:

- ❗ reduce manual CNC programming
- ❗ avoid duplicate data entry
- ❗ create a workflow that can be used by every team member
- ❗ ensure continuity even when individuals are absent

■ Solution

One digital drawing as the central source of all project data

To overcome the limitations of a purely 2D workflow, NERF redefined the relationship between design and production. The goal was a digital drawing containing all relevant information – from initial concept to CNC-driven manufacturing. Instead of separating visualisation, technical drawings, and production data, all project phases are now developed within a single planning environment. Palette CAD forms the framework for this integrated approach. The process starts with client briefing and first 3D imagery. These designs are not treated as mere presentation images but already contain the constructive logic required for production. The quality of renderings plays a crucial role at this early stage. The ability to create high-quality visualisations directly in Palette CAD has fundamentally changed how NERF presents designs. Lighting concepts, manufacturer-specific textures, and original 3D models can be integrated directly. Aesthetic decisions and technical feasibility now develop in parallel.

“ We wanted less programming work and a workflow where all information can be derived directly from a single drawing.

Benjamin Broere
Co-owner of NERF Interieur



Material decisions are validated early within the digital model.

„Palette CAD is a very technical program, but as interior designers we quickly found our way around it. The rendering quality allows us to present lighting concepts, materials, and manufacturer 3D models far more realistically than before.”

Samira, Interior Designer at NERF Interieur

Early renderings can already be shared with clients in initial phases. These quick visualisations help communicate spatial concepts before every detail is finalised, enabling faster decisions and greater planning reliability.



CAD-CAM integration enables seamless data transfer to the machine.

Since Samira oversees both visual design and technical coordination, each project is structured from the beginning to ensure a seamless transition to production. Once approved, the design is not rebuilt but directly refined into detailed technical drawings.

Bills of materials are automatically generated from the Palette CAD drawing. CNC data is transferred directly to the Holzher Evolution 7405 via the CAM interface – no manual programming required.

Labels and structured parts lists ensure full traceability of each component. Furniture elements are produced, labelled with QR codes, and pre-assembled in the workshop before final installation on site.

A workflow designed for continuity

Because design and production are fully connected, operating the CNC machine is now largely independent of individual specialists. Any trained team member can run the machine. This significantly reduces dependency risks and ensures continuity. The team also benefits from faster coordination and direct feedback between design, planning, and production. Since both 2D construction details and 3D visualisations originate from the same file, inconsistencies are largely eliminated. Compared to the former 2D workflow, this results in fewer errors and noticeable time savings.



Digital planning provides clients with a realistic impression of the final result.

Result

Design quality, production reliability, and strategic efficiency

The introduction of Palette CAD has strengthened NERF's operational stability on multiple levels.

Production processes have become significantly more reliable:

- ✓ Technical drawings are accurate to the millimetre
- ✓ CNC data is transferred without manual steps
- ✓ Errors from duplicate data entry are minimised
- ✓ Workflow disruptions due to staff absence are avoided

Client communication has also improved. High-quality 3D visualisations allow interior concepts to be presented with convincing realism. Clients understand proportions, lighting, and materials before production begins, accelerating project progress.

Working with a single digital drawing ensures that planning and final execution match exactly. Creative development and technical realisation are no longer separate processes, but two phases of the same workflow.

“ Today, all production-relevant information comes from a single drawing. That is the biggest difference compared to our previous workflow.

Benjamin Broere

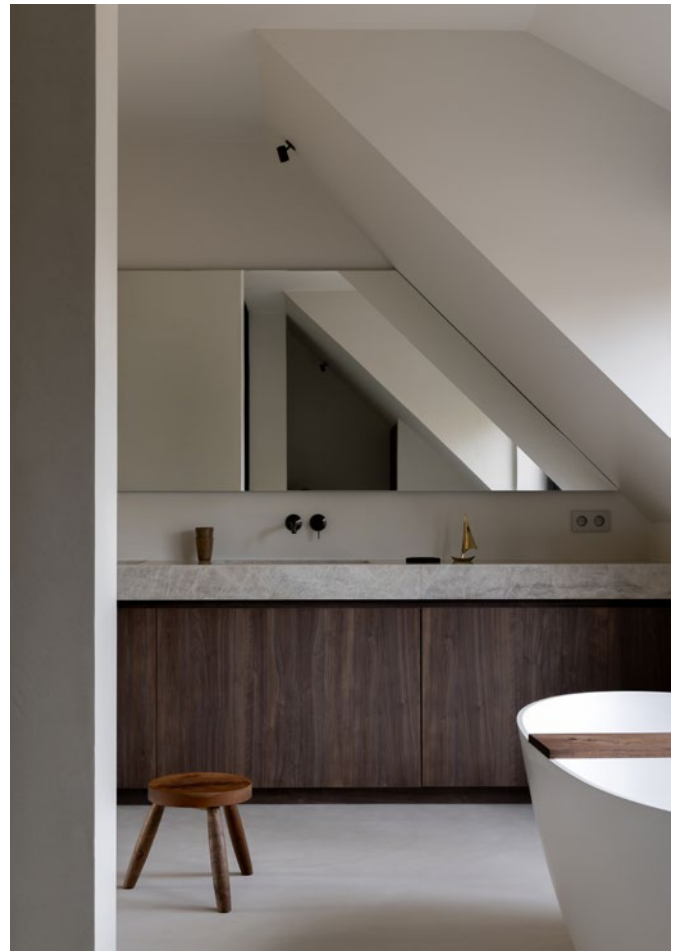
Co-owner of NERF Interieur



Despite continuous growth over the past ten years, NERF has deliberately chosen not to expand the team further. The integrated digital workflow allows the company to handle complex, large-scale projects with a relatively small team while maintaining high quality standards.



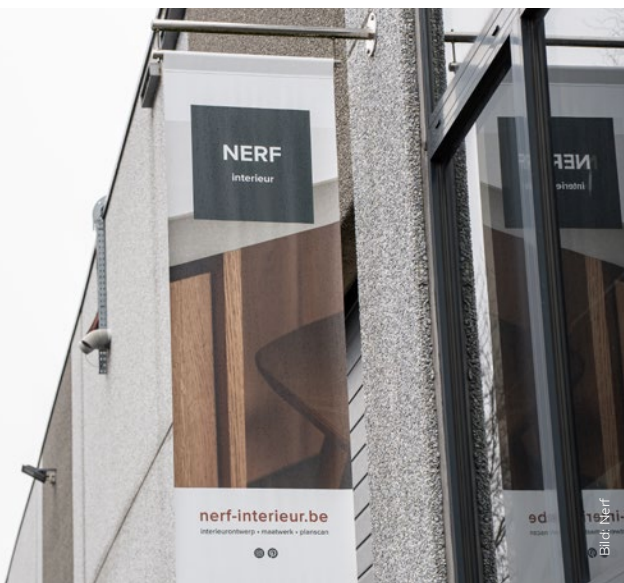
Digital planning ensures consistently high-quality results.



Images: Nicolas Broeckx

“ Quality is our top priority. Thanks to CAD-CAM integration, we can transfer our designs into production with maximum precision.

Benjamin Broere
Co-owner of NERF Interieur



NERF
interieur

COMPANY:

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nerf-interieur.be

CORE COMPETENCIES:

custom interior design, bespoke furniture production, integrated workflow from planning to production

CAD SOFTWARE: Palette CAD

CNC MACHINE: Holzher Evolution 7405



LIVE DEMO

GET TO KNOW PALETTE CAD: ONLINE, LIVE, IN PERSON

During a live demo, you will receive a **free introductory session** on the CAD software Palette CAD. You will get an overview and have the opportunity to ask all your questions about CAD planning and CAM handover. In **just 30 minutes**, the key features and solutions for presentation, planning and production will be presented to you.

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