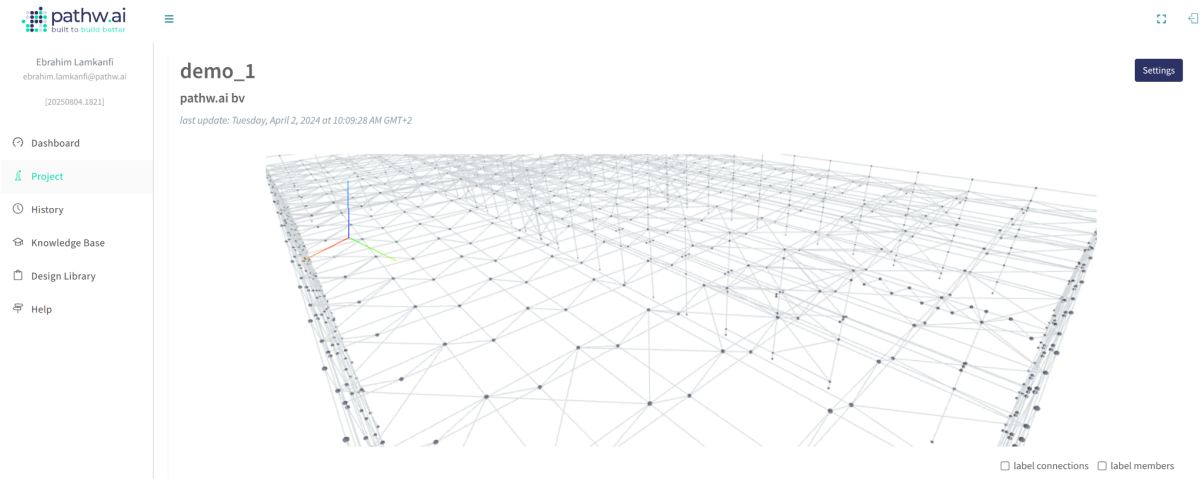
Intelligent platform for steel structure detailing
Article from 09/26/2025 by www.beida.fr
Version EN

Intelligent platform for steel structure detailing

Pathw.ai is a cloud-based platform designed to optimize the detailing of steel structures. It is not a calculation tool, but rather an intelligent assistant capable of processing large volumes of technical data generated by engineering software.

By streamlining the transfer of data from FEA tools such as Robot Structural Analysis, SCIA, STAAD.Pro, SAP2000, ETABS and Technosoft to steel detailing software like IDEA StatiCa, RAM Connection and PowerConnect (BuildSoft), Pathw.ai provides engineers and stakeholders with a fast, accurate and comprehensive overview of their technical decisions.



The platform also acts as a technical memory, enabling the storage, sharing and reuse of validated solutions for future projects, eliminating redundant work while allowing users to remain fully responsible for applying their professional judgment, something no artificial intelligence can replace.

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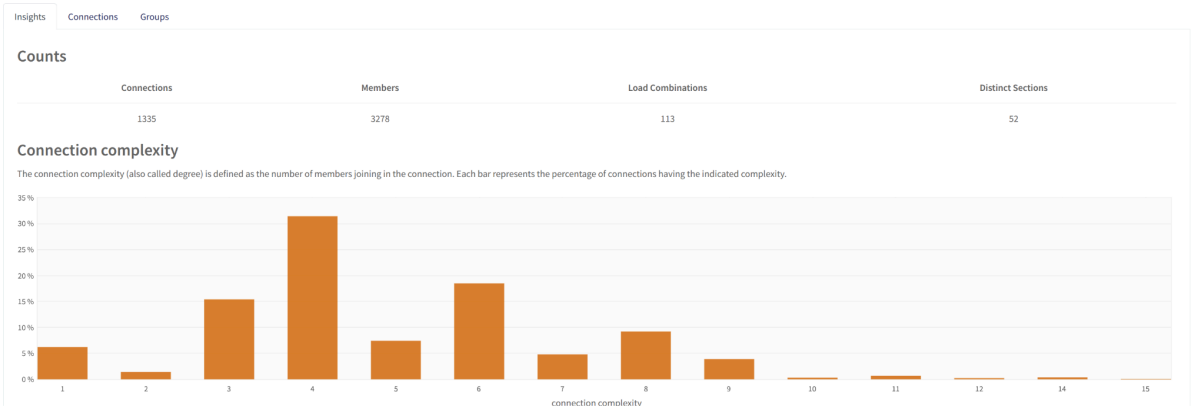
Key features

- **Advanced data analysis:** Enhances understanding of stress states and identifies minimum and maximum forces through a transparent, automated process, saving time on large-scale projects.
- **Intelligent connection identification:** Automatically recognizes similar connections and critical load combinations, helping engineers focus on key structural requirements.
- **Evolving library and technical memory:** Efficiently stores, shares and reuses validated solutions for future projects, independent of any specific software.
- **Simplified collaboration:** Facilitates seamless sharing and exchange of technical data among all stakeholders, even those without FEA licenses.
- **Design and fabrication optimization:** Proactively highlights critical stress states, reduces delays and supports better production efficiency.



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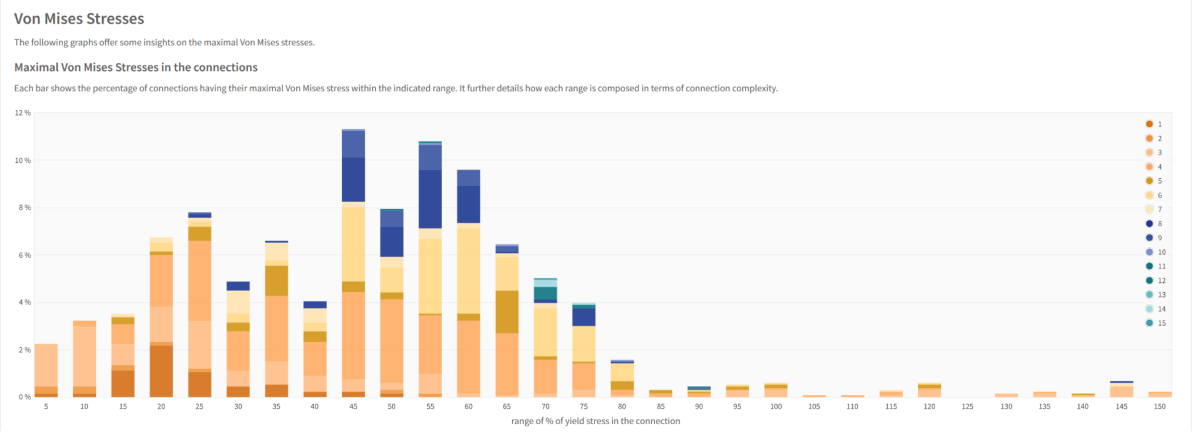

Benefits

- **Significant time savings:** Minimizes repetitive tasks and accelerates project delivery.
- **Seamless software integration:** Complements traditional engineering tools for a smooth transition from design to production.
- **Enhanced transparency and collaboration:** Improves communication and data sharing among all stakeholders.
- **Continuously evolving platform:** Learns and grows smarter with every project using its technical memory.
- **Experience-driven decisions:** Applies past insights while leaving final judgment in the hands of stakeholders.

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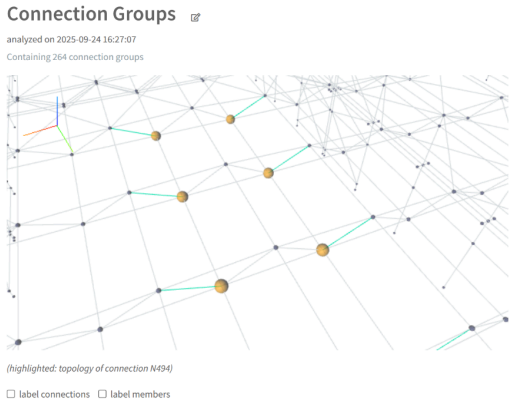
Pathw.ai provides a comprehensive and intelligent approach to steel structure design, effectively processing technical data and building a reusable library of proven solutions. It enhances but does not replace human judgment, ensuring stakeholders retain full control over all design and fabrication decisions.



Supported tools and connection libraries

- **CSI:** SAP2000 / ETABS
- **Idea StatiCa**
- **RAM Connection**
- **Technosoft:** Raamwerken
- **Bentley:** STAAD.Pro
- **Dlubal:** RFEM5 / RFEM6 / RSTAB8 / RSTAB9
- **Nemetschek:** SCIA
- **Autodesk:** Robot Structural Analysis

Includes 2,000+ pre-calculated Eurocode 3 compliant shear connections provided by the Dutch Steel Association.

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