

Trimble Streamlines Design Collaboration with 2025 Versions of Tekla Structural Design and Analysis Software

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New Versions of Tekla Structural Designer and Tekla Tedds Enable Comprehensive Design-to-detail Workflow

WESTMINSTER, Colo., March 12, 2025 /PRNewswire/ -- Trimble® (Nasdaq: TRMB) announced today the **2025 versions of Tekla**® Structural Designer, its structural analysis and 3D design software for multimaterial buildings, and Tekla Tedds, its automated civil and structural analysis calculation software. With several significant updates, both products offer an enhanced user experience and expanded design capabilities for an optimized design collaboration experience.

Tekla Structural Designer 2025 and Tekla Tedds 2025 help create connected workflows to facilitate seamless design collaboration between various software solutions like Trimble SketchUp®, Autodesk® Revit® and Tekla Structures. These integrations allow structural engineers to reuse information and share and analyze models more efficiently to enhance the engineer's productivity and accuracy.

Connected Ecosystems for Confidence in Workflows

Models created in Trimble SketchUp can now serve as reference models within Tekla Structural Designer, further strengthening the architect-to-structural engineer collaborative workflow. In addition, Trimble enhanced the integration of Tekla Structural Designer with Autodesk Revit, allowing for a smooth bidirectional transition of models between Revit and Tekla Structural Designer. The Tekla Structural Designer Integrator for Revit 2025 includes improved connectivity rules, additional profile families for the UK and USA markets, and enhanced analytical model creation for more accurate and connected models.

Comprehensive Design-to-Detail Workflow

Through an enhanced connected workflow between Tekla Structures and Tekla Structural Designer, BIM modelers and structural engineers can efficiently share model information for the analysis of steel structures. This seamless data transfer reduces errors in the design process and facilitates a comprehensive design-to-detail workflow to improve collaboration between architects and engineers.

Tekla Structural Designer 2025 also features an easier way for mapping user-defined attributes (UDA) between Tekla Structural Designer and Tekla Structures, which includes data on critical design values under fire conditions, to address the growing importance of fire safety in structural design. An improved integration with IDEA StatiCa® structural analysis software further streamlines the connection design process, facilitating detailed connection design within the Tekla environment.

"Trimble supports its customers in their quest to collaborate, construct and deliver with confidence," said David Sanderson, product manager, Tekla Structural Designer and Tekla Tedds at Trimble. "The enhancements in the 2025 versions of Tekla Structural Designer and Tekla Tedds streamline the design process by bridging the worlds of architecture and engineering, supporting teamwork around shared design data while ensuring maximum productivity."

Tekla Tedds Calculations Library Updates

Trimble values keeping its software libraries and design codes up to date, ensuring that engineers have access to the latest design standards. Therefore, the extensive library of calculations in Tekla Tedds has been updated to incorporate the latest North American Loading and Steel Design codes (ASCE7-22 and AISC360-22). Tekla Tedds has also introduced new temporary works calculations for Outrigger loading design (EN1997/TWf) and Crane wind loading assessment (BS ISO 4302).

Design Solutions: Rapid Carbon Assessments

Tekla Structural Designer 2025 offers a new integration with Structural PANDA, allowing UK-based structural engineers to perform rapid carbon assessments during the preliminary design stage. The tool generates a wide range of structural design solutions from initial concepts, helping engineers optimize building designs based on various criteria, including carbon footprint and cost. The Tekla Structural Designer integration facilitates easy import of these preliminary schemes for more detailed design within Tekla Structural Designer.

Design Solutions: Podium Structures Made Easier

To provide a comprehensive design solution for podium structures in North America, the masonry design in Tekla Structural Designer 2025 has been further enhanced. Utilizing a unique finite element approach for designing masonry walls, this update now includes wall edge releases and improved reinforcement handling, making it even

easier for engineers to design masonry structures.

Regional Expansion

The addition of a new Mexican environment to the selection of regional settings expands the usability of Tekla Structural Designer 2025 to regions using US codes with metric units.

AI-Powered Trimble Assistant for Tekla

The new AI-powered Trimble Assistant for Tekla is available as a web app in Tekla User Assistance. It provides accurate and concise answers to users' questions on Tekla products — Tekla Structures, Tekla Structural Designer, Tekla Tedds or Tekla PowerFab — by using the Tekla User Assistance knowledge base.

In-Product Notifications

New in-product notification panes in both Tekla Structural Designer and Tekla Tedds alert users to information about product updates and bulletins.

Availability

Tekla Structural Designer and Tekla Tedds 2025 will be available at: download.tekla.com from March 12th, 2025.

Images are available for download [here](#).

About Trimble AEEO

Trimble is empowering stakeholders through planning, design, construction and the entire asset lifecycle. The company's innovative and connected ecosystem of solutions improves coordination and collaboration between teams, phases and processes. Automating work and transforming workflows, Trimble is enabling teams to deliver with confidence at every turn. For more information, visit: construction.trimble.com.

About Trimble

Trimble is transforming the ways people move, build and live. Core technologies in positioning, modeling and data analytics connect the digital and physical worlds to improve our customers' productivity, quality, safety, transparency and sustainability. For more information about Trimble (Nasdaq: TRMB), visit: www.trimble.com.

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