



Pinkwood PKjoists® Requirements for Engineer's Seal

Differences between Plated Trusses and Pre-manufactured Wood I-joists

Plated trusses require an engineer's seal for each specific product profile as specified in the model building code. This requirement is due to the individual and unique nature of each truss design which considers span, loading, bearing conditions, web configuration, chord configuration including truss plate size, plate gauge, orientation and capacity. Because of these numerous variations, truss manufacturers do not publish span charts or list design properties within a code approved evaluation services report, nor are these values listed in the model building code.

Pre-manufactured wood I-joists do not require an engineer's seal on design calculations because each product has code recognized design properties listed within their respective code approved evaluation services report. This is similar to dimensional lumber and timber products which have published design values and allowable span tables listed in the model building code for various applications.

Code Approved Use

PKjoists® are covered under 2024/2021/2018 and 2015 IBC Section 2303.1.2 and 2024/2021/2018 and 2021/2018 and 2015 IRC Section R502.1.2 *Prefabricated wood I-joists* (2209/2012 IRC Section R502.1.4). The section states: "Structural capacities and design provisions for prefabricated wood I-joists shall be established and monitored in accordance with ASTM D-5055." Pinkwood Ltd. has established and maintained code approved evaluation services reports which specifically outline structural capacities and design properties in accordance with ASTM D-5055 and are listed in Section 6.0 of its IAPMO UES-ER 0431 report, which confirms compliance with the relevant building codes.

Code Approved Design Properties

PKjoists® may be specified using Pinkwood's published literature or through proprietary software containing the products design properties, including Simpson Design Studio® (formally CSD® - Calculated Structural Design) and MiTek Sapphire®. These programs specify Pinkwood products from the exact loading conditions and product spans information as entered by the operator. Code approved design properties are contained within the software and are not subject to manipulation by the operator.

Summary

When Pinkwood's PKjoists® are used in connection with a current code approved evaluation services report and used within the published design properties of the product as outlined within the Evaluation Services Report the addition of an engineer's seal is not required.

If you have any questions, please contact XP-EWP for details.

Simpson Design Studio®, Mitek Sapphire®, Pinkwood® and PKjoist® are registered trademarks and not the property of XP-EWP. Contact their respective owners for information.

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TECHNICAL BULLETIN
TB01
January 2026