T3 Minneapolis – America's Largest Modern Mass Timber Building

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Abstract

Mass timber construction in America has been reborn with T3 Minneapolis (timber, transit, technology) – at 220,000 sqft and 7 stories, T3 is the largest modern mass timber building in North America. As a spec office building it is designed to attract the modern tenant, embracing green construction techniques and creating a warm interior environment with the timber superstructure. T3's rustic core-ten façade resembles its historic neighbours while its interior highlights simplicity, modernity and elegance through exposed engineered wood products and connections. Over 1000 CNC'd glulam beams and columns and over 1100 2x8 NLT panels were prefabricated offsite and sequentially delivered to site for just in time delivery. The T3 timber superstructure was erected in 9.5 weeks. The T3 success story began with a convinced developer and design team, and carried through with exceptional team communication, collaboration, and pre-planning and eventually delivery from StructureCraft. Every detail was carefully discussed and realized with the intent that T3 represent a successful and competitive model for future mass timber buildings in North America.

Keywords: Mass timber, heavy timber, offsite construction, prefabrication, modular construction, glulam, nail-laminated timber (NLT), timber engineering

1 Introduction

T3 Minneapolis (timber, transit, technology) represents a new type of contemporary office structure designed to attract tenants looking for a building that represents sustainability, connectivity and modernity. T3 is one of the largest multi-storey wooden office structures to be built in the U.S. in the last 100 years, consisting of 6 stories of heavy timber construction on a podium concrete slab.

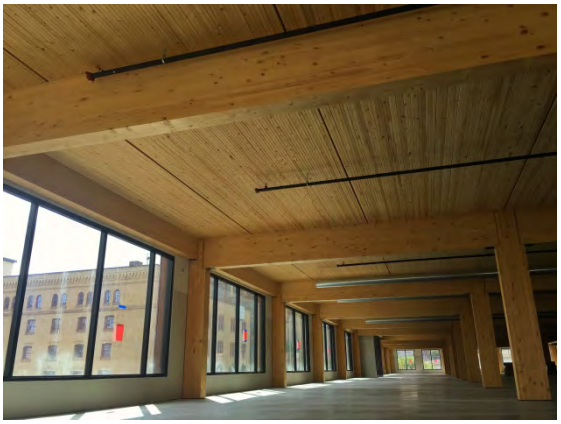

Figure 1 T3's Exposed Timber Structure

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